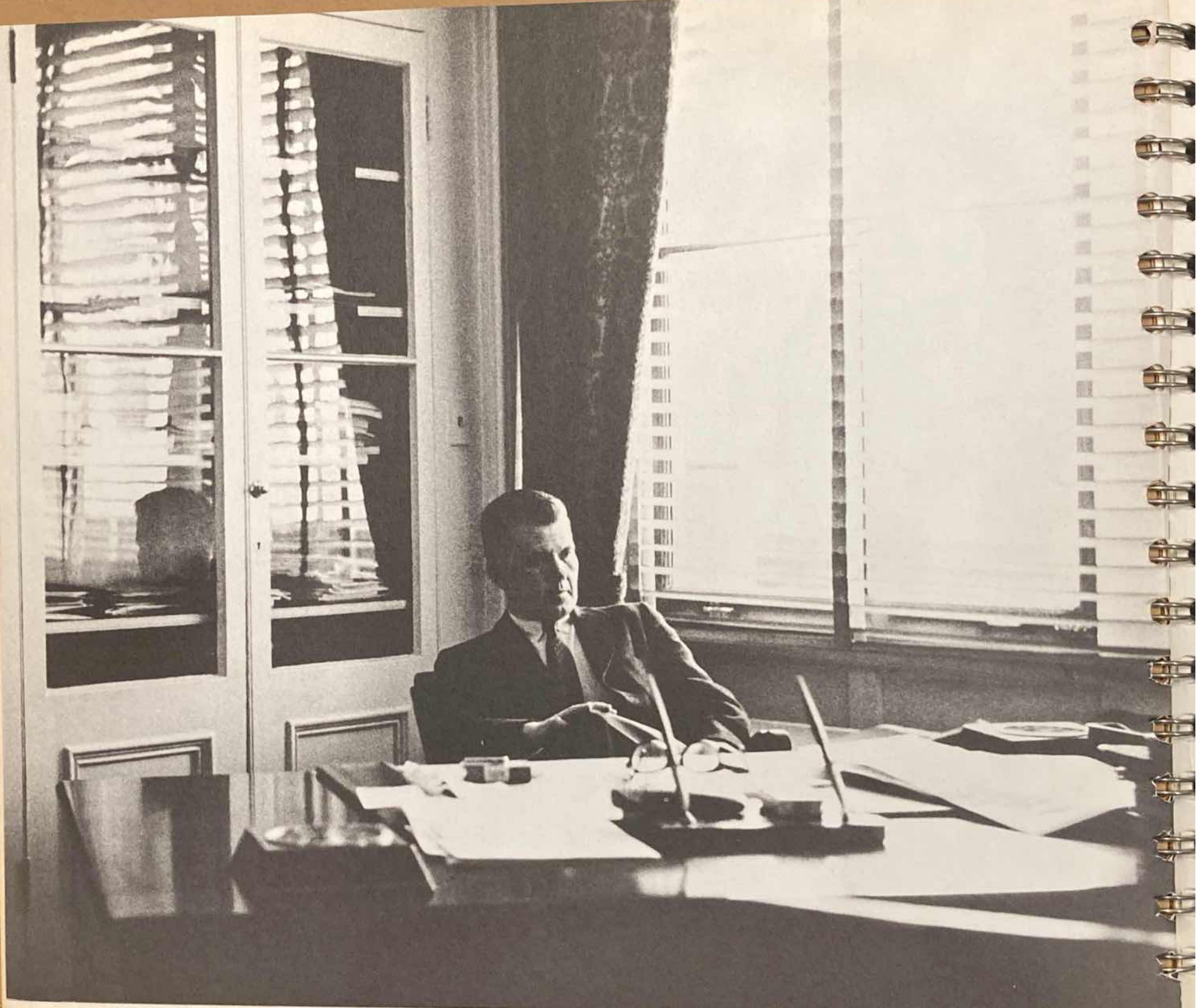


The Cable





One hundred years ago this spring, five young men were preparing to become the first "graduates" of Cooper Union. This fact needs a bit of explaining. Cooper Union had held Commencement ceremonies every year since 1860, but these exercises were called for the purpose of presenting the certificates that acknowledged completion of a single class. The five graduates of 1864 were the first to complete the entire five-year sequence of courses that had started in 1859, and thus the first to receive Cooper Union diplomas.

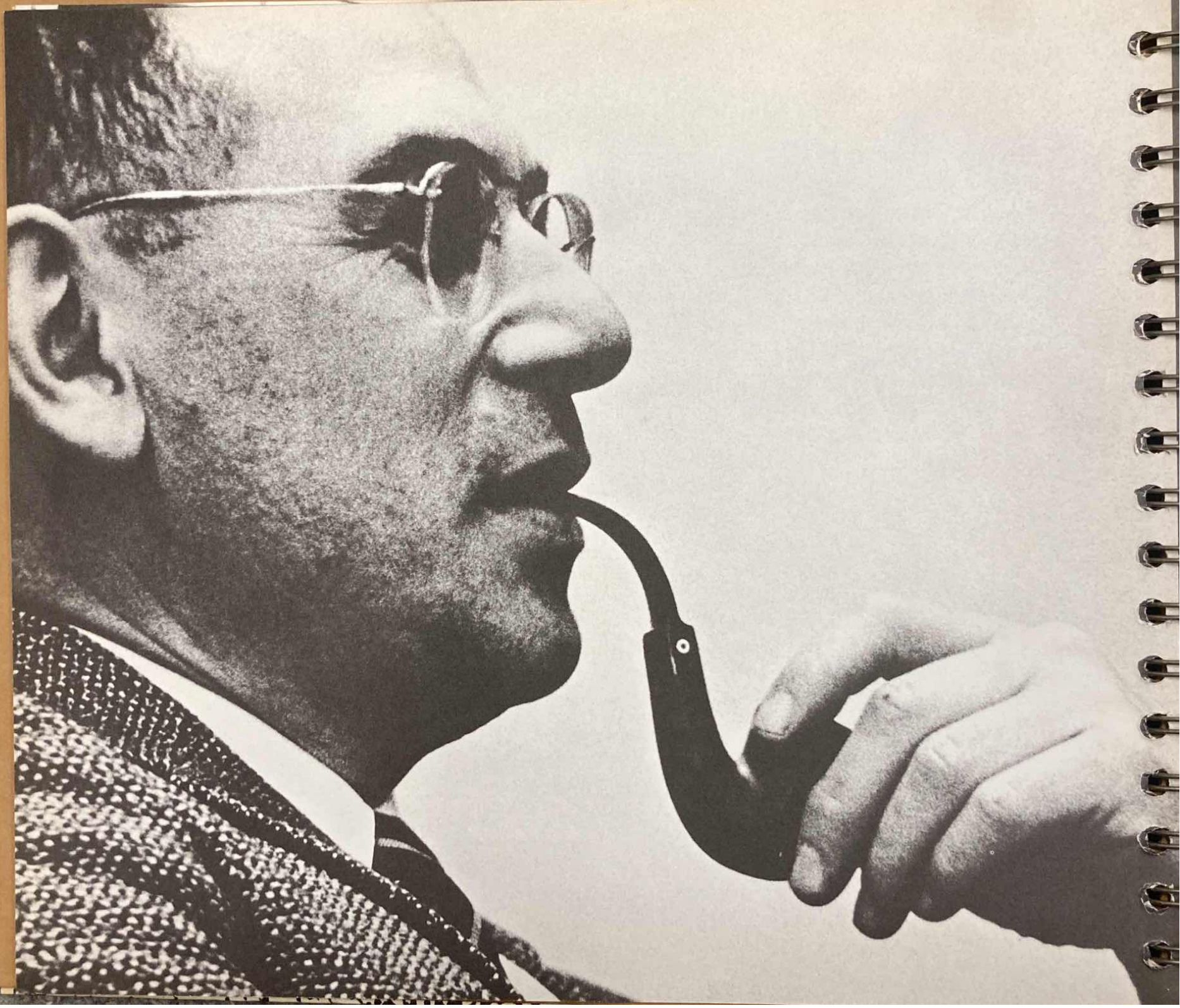
They were night students, of course, for at that time Cooper Union offered no day courses to men. They were employed in the daytime, thus following the pattern that Peter Cooper desired when he founded the school. Two of them were clerks and the others included an engraver, a machinist, and a coachmaker. Peter Cooper was extremely proud of them and on Commencement Day he shook their hands and made a short speech, in which, using the flowery rhetoric that was popular in those days, he said: "I trust that the young here will catch the inspiration of truth in all its native power and beauty, and find in it a source of inexpressible pleasure, and spread its transforming influence throughout the world."

It was quite a feat in those days to complete the Cooper Union curriculum. The five men who received the first diplomas had started out with a group of close to 1,500, and they were the only ones to complete the curriculum which included mathematics, chemistry, natural philosophy, and architectural, mechanical, and free hand drawing. Today the curricula in both of Cooper Union's schools are far more advanced and more difficult than were the courses of 1864, and I am happy to say that our dropout figures of today are vastly improved.

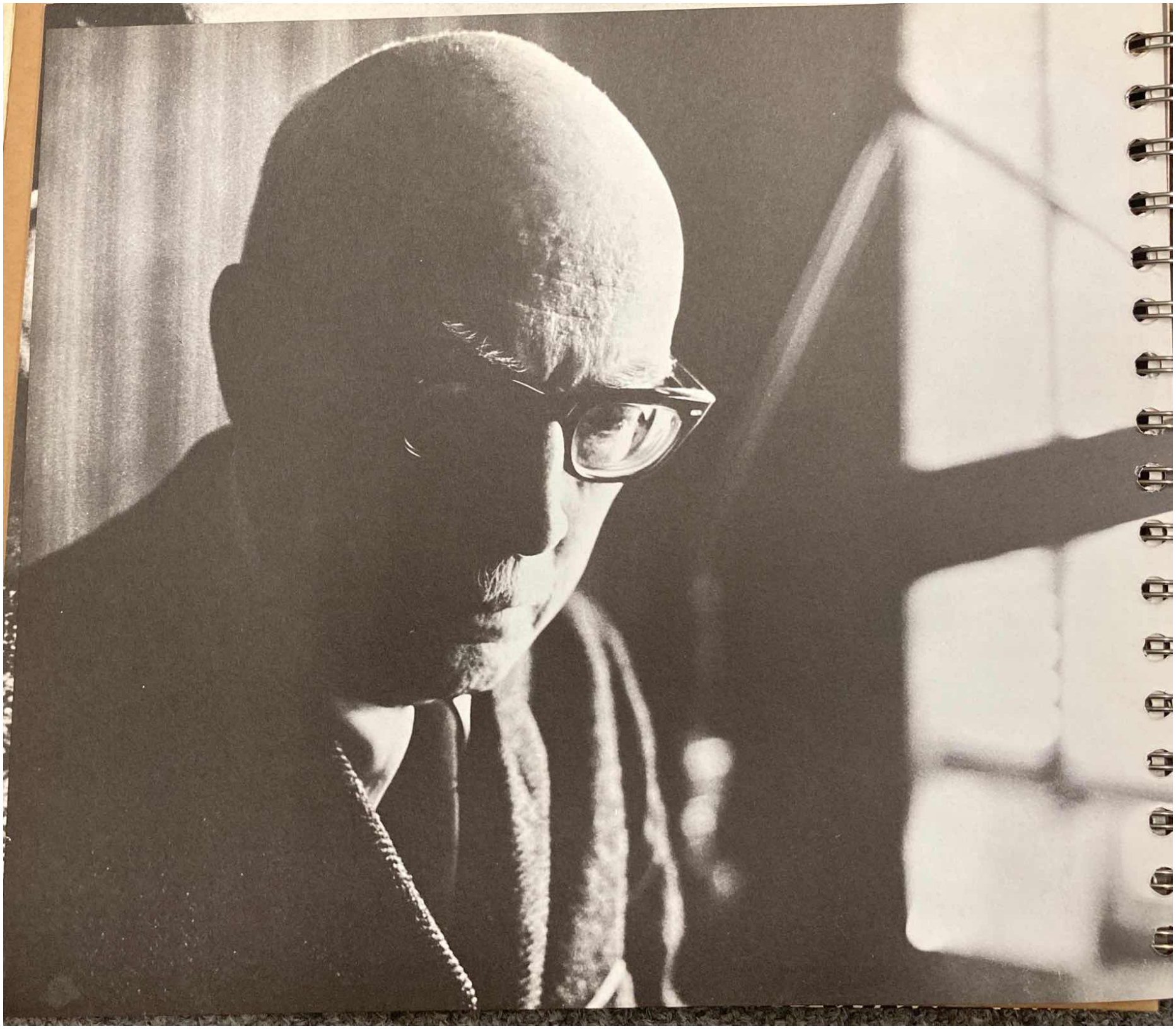
It is difficult, however, even today, to improve on the gist of Peter Cooper's talk of a hundred years ago. We may tone down the rhetoric a bit, but there is nothing more fitting for me to express to our graduates and students of 1964 than the wish that they, too, may "catch the inspiration of truth," that in this they may find pleasure, and that through them truth may may be extended and applied in their world.



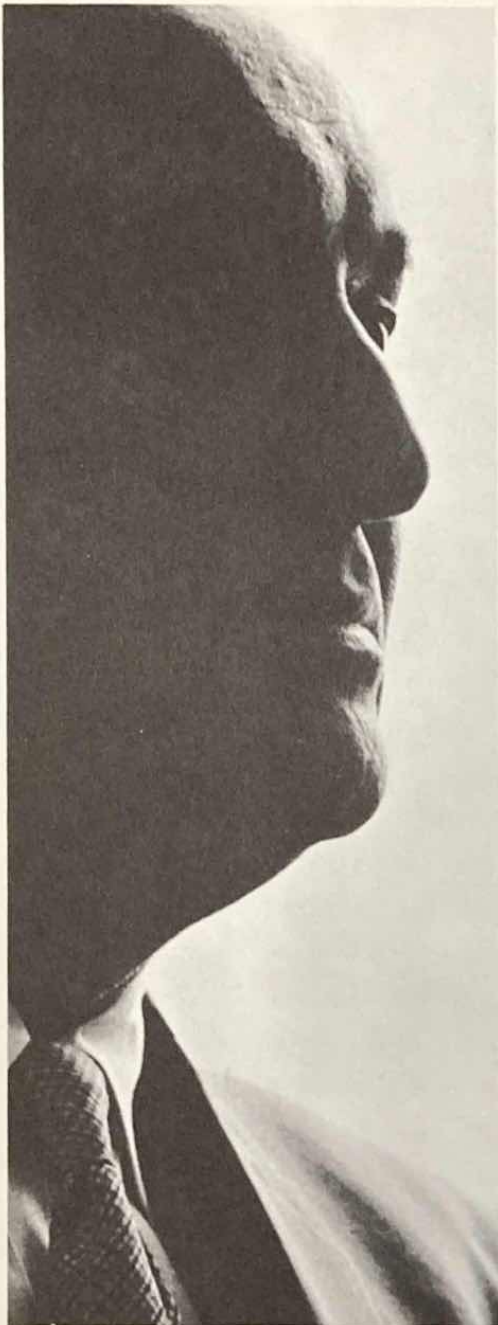
Trustees: Arthur A. Houghton, Jr., Chairman; Harrison Tweed, Frank W. Abrams, Daniel Maggin. **Officers:** Richard F. Humphreys, President; Elizabeth J. Carbon, Secretary; Sheridan A. Logan, Treasurer. **Heads of Educational Divisions:** Esmond Shaw, Dean of the School of Art and Architecture; Aaron J. Teller, Dean of the School of Engineering; Johnson E. Fairchild, Director of Adult Education; Christian Rholfing, Administrator of the Museum for the Arts of Decoration. **Heads of Educational Offices:** Richard S. Ball, Dean of Students; Mary F. Blade, Director of the Green Camp; Fred H. Graves, Head Librarian; J. Clinton Hollinger, Director of Athletics; Walter S. Watson, Director of Admissions and Registrar. **Heads of Administrative Offices:** Elizabeth J. Carbon, Business Officer; Francis A. Culver, Director of Public Relations; John J. Lanigan, Director of Development; John W. S. Ord, Director of Alumni Annual Giving; Herbert F. Roemmele, Director of Alumni Relations and Placement Officer; David D. Thompson, Superintendent of Buildings.

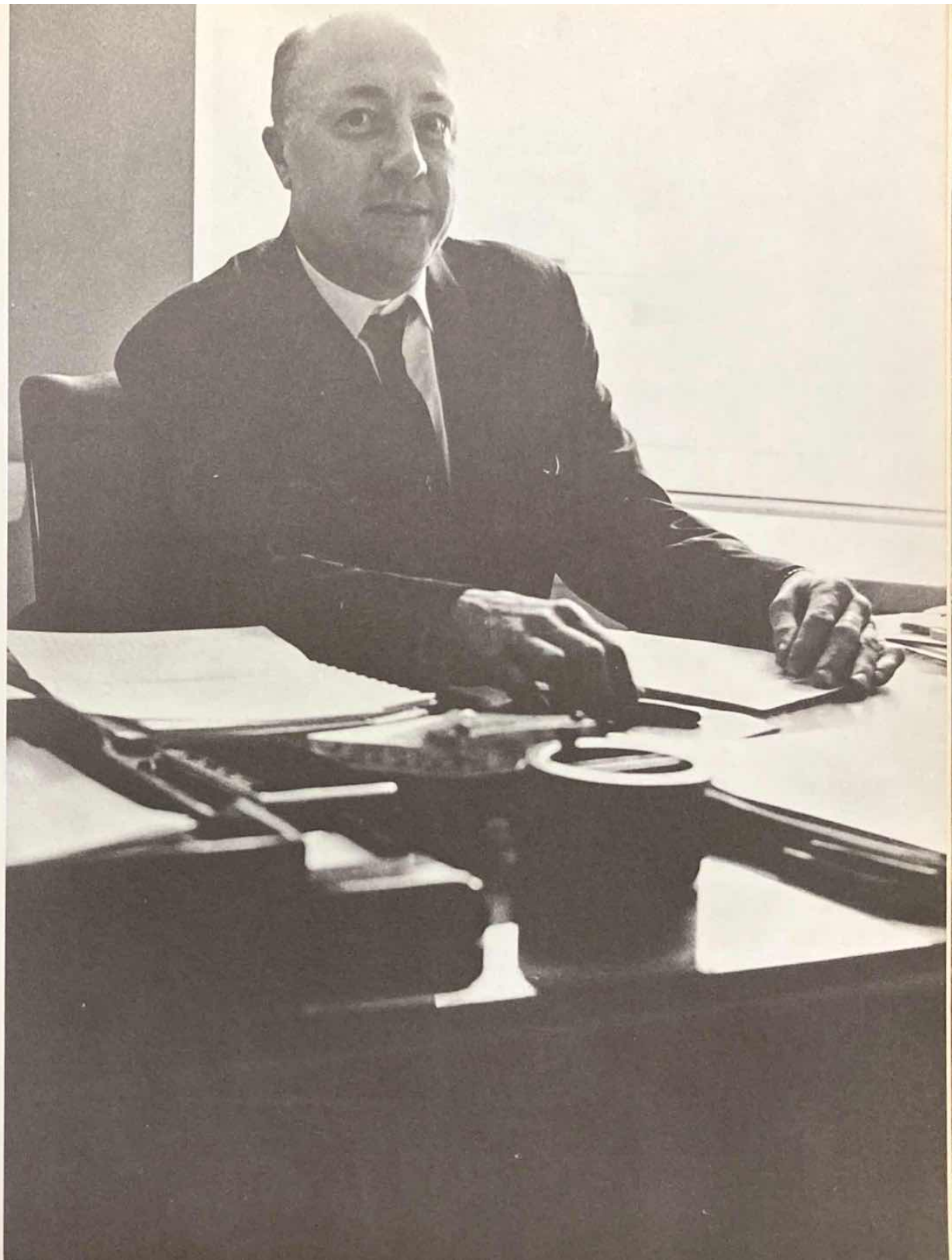


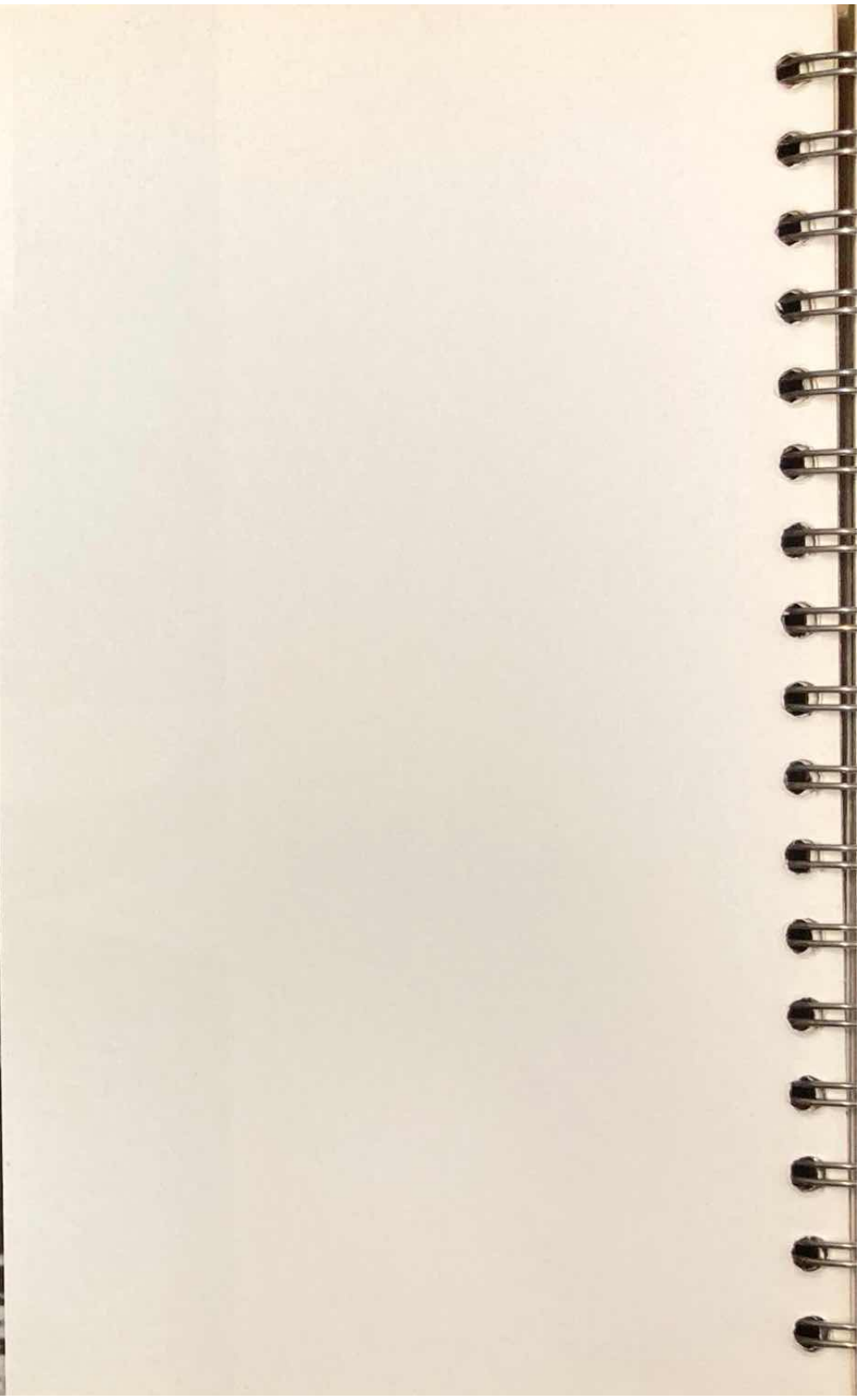
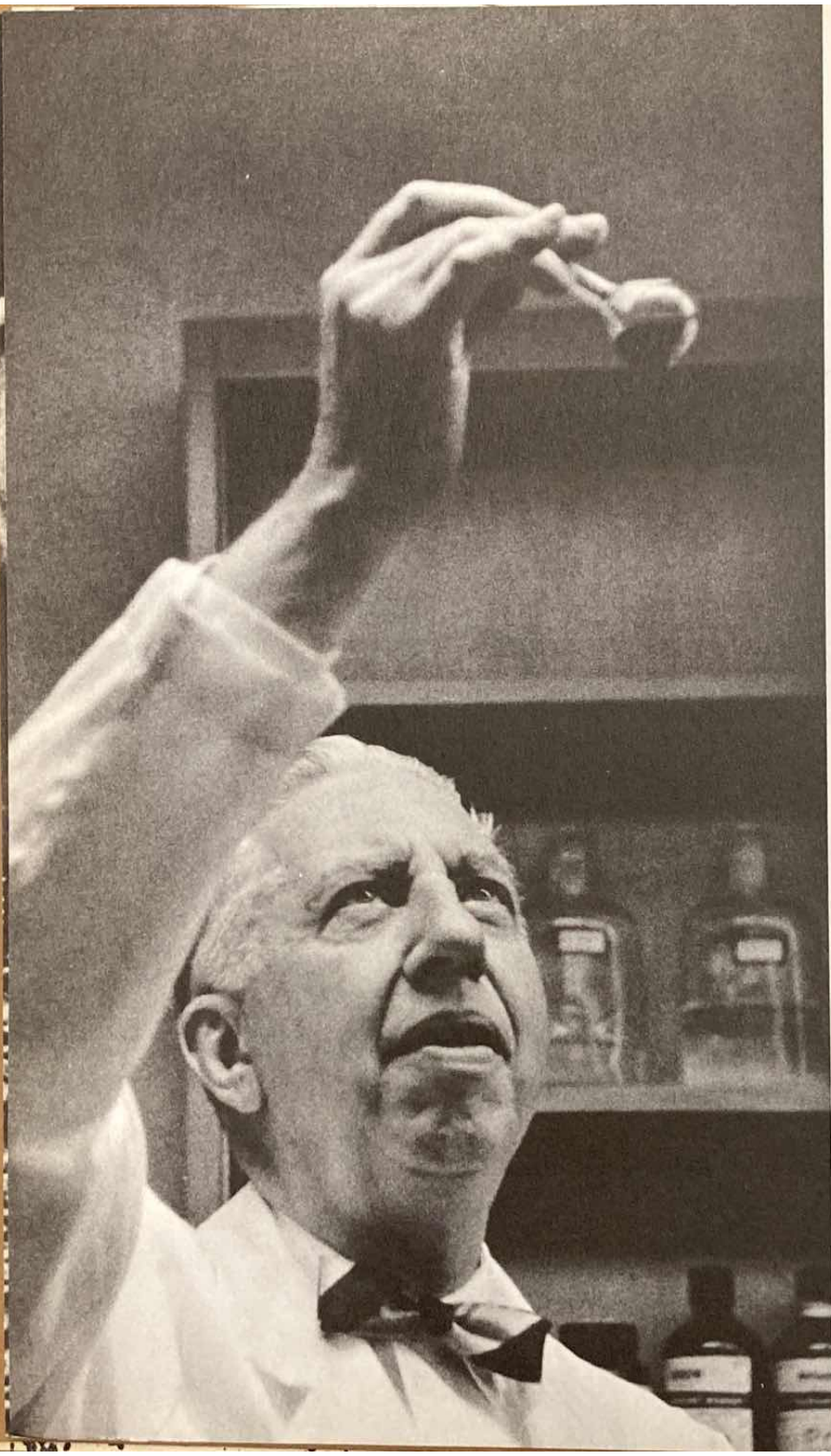
Ralph J. Alliegro	Leo Amino	Richard J. Anuszkiewicz	Arnold Arbeit	Anthony
E. Armenakas	Sholom Arzt	Louis Axelbank	Richard S. Ball	Will Barnet
Salvatore Barone	Bertram Bassuk	Hannes Beckmann	Richard Bender	Emil
Bilas	Robert H. Blackburn	Mary F. Blade	Varujan Y. Boghosian	John L.
Bove	Richard S. Bowman	Paul Brach	Joseph Breitenbach	Samuel Brody
Peter Bruder	Arthur E. Bye	Frank M. Caldiero	Victor Candell	Anthony Can-
dido	Nicholas Carone	Joan A. Conn	Harvey J. Coopersmith	Benjamin F.
Cunningham	Stefano Cusumano	Joseph A. D'Amelio	Richard Dattner	Ismar
David	Lewis Davis	Lindsey Decker	Paul V. DeLuca	Raymond B. Dowden
Stephen M. Edelglass	Walton D. Ellison	Weller B. Embler	Sidney Epstein	
Richard C. Extermann	Johnson E. Fairchild	George Feinstein	Edward F. Fer-	
rand, Jr.	Harvey I. Fersten	Jay Fleishman	Thaddeus R. Gatza	Samuel Gelf-



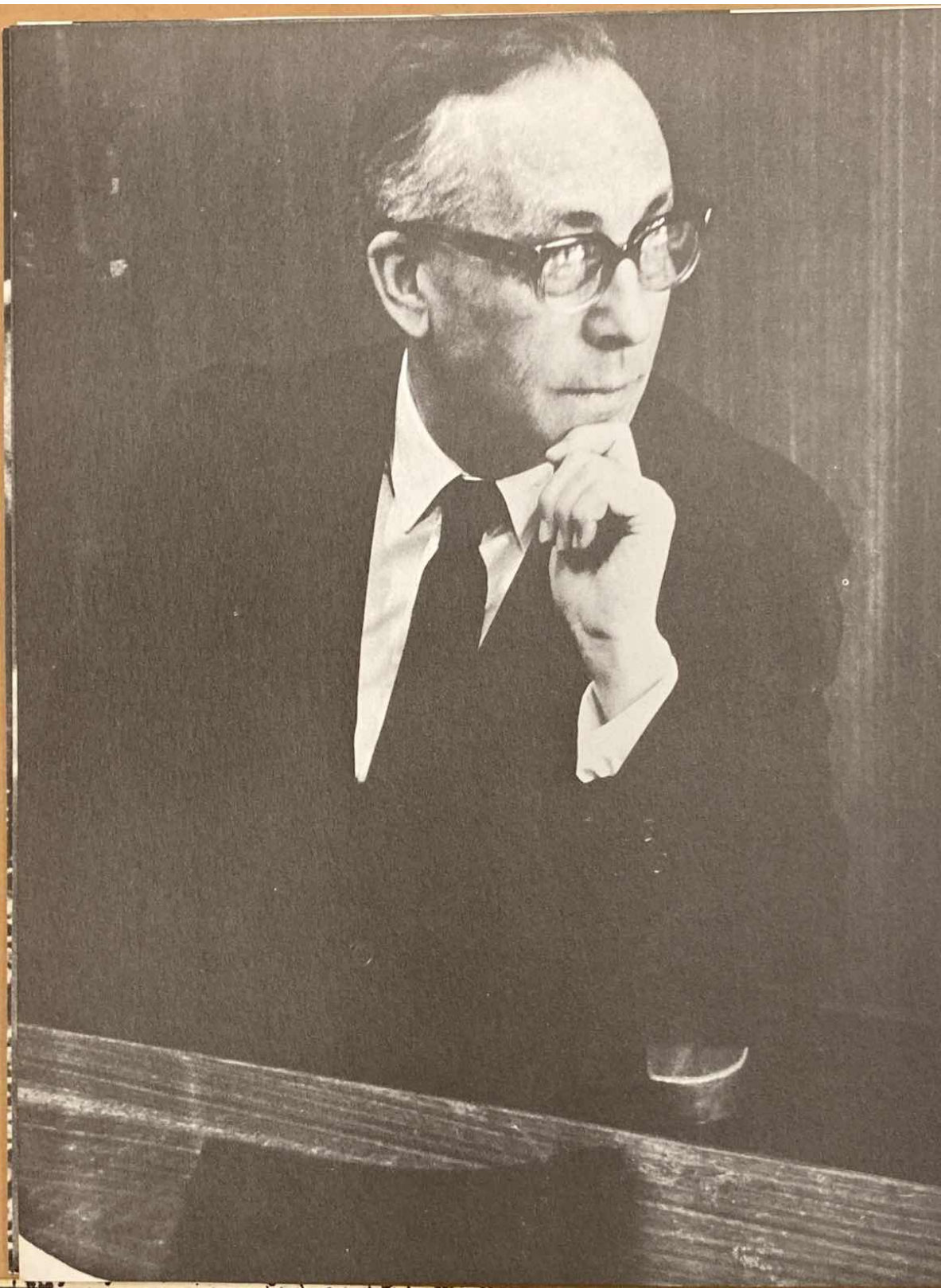
man Howard Gelman Leon Goldin Norman Gorbaty Robert H. Gray
Edward M. Griswold Paula N. Grossman Kingman N. Grover Philip Grushkin
S. Frederic Guggenheim Robert Gwathmey Robert Haas H. Lawrence Hoffman
J. Clinton Hollinger Henry B. Hope John Hovannes Robert Hundley Angelo
Ippolito John C. Kacere Reuben Kadish Joseph Kalb Israel Kalish Leo
S. Kaplan Ralph L. Knapp Edward F. Knowles K. George Kratina Walter S.
Kut Daniel Laitin Charles P. Lecht Irving Levine Simon Lewin Herbert
Liebeskind Kenneth E. Lofgren Oswaldo Lourenso Arsete J. Lucchesi David
Lund Charles Macaluso Arthur Mader Harry Mahler Leo Manso
Nicholas Marsicano Robert A. Mayo James C. McCrea, Jr. Donald V. Mehus
Richard A. Meier Lawrence B. Mendelsohn Walter J. Middleton Frederic H.
Miller Seong Moy John J. Naso Marvin B. Newman Philip Nudd James
N. O'Gorman Milton Ohring Tobias R. O'Mara Edwin M. Owre Gerald A. Paul
J. Merriam Peterson James R. Pfafflin Bernard Pfriem George Picken Regi-
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Weng Tan Aaron J. Teller Ted Tessler William A. Vopat Felix A. Wallace
Walter S. Watson Alan Wayne Norval C. White Chester J. Wisniewski Hell-
mut Wohl George Wolfson Matthew Wysocki A. Aaron Yalow Adja Yunkers
Edward Zimmermann Bernard Zivotofsky

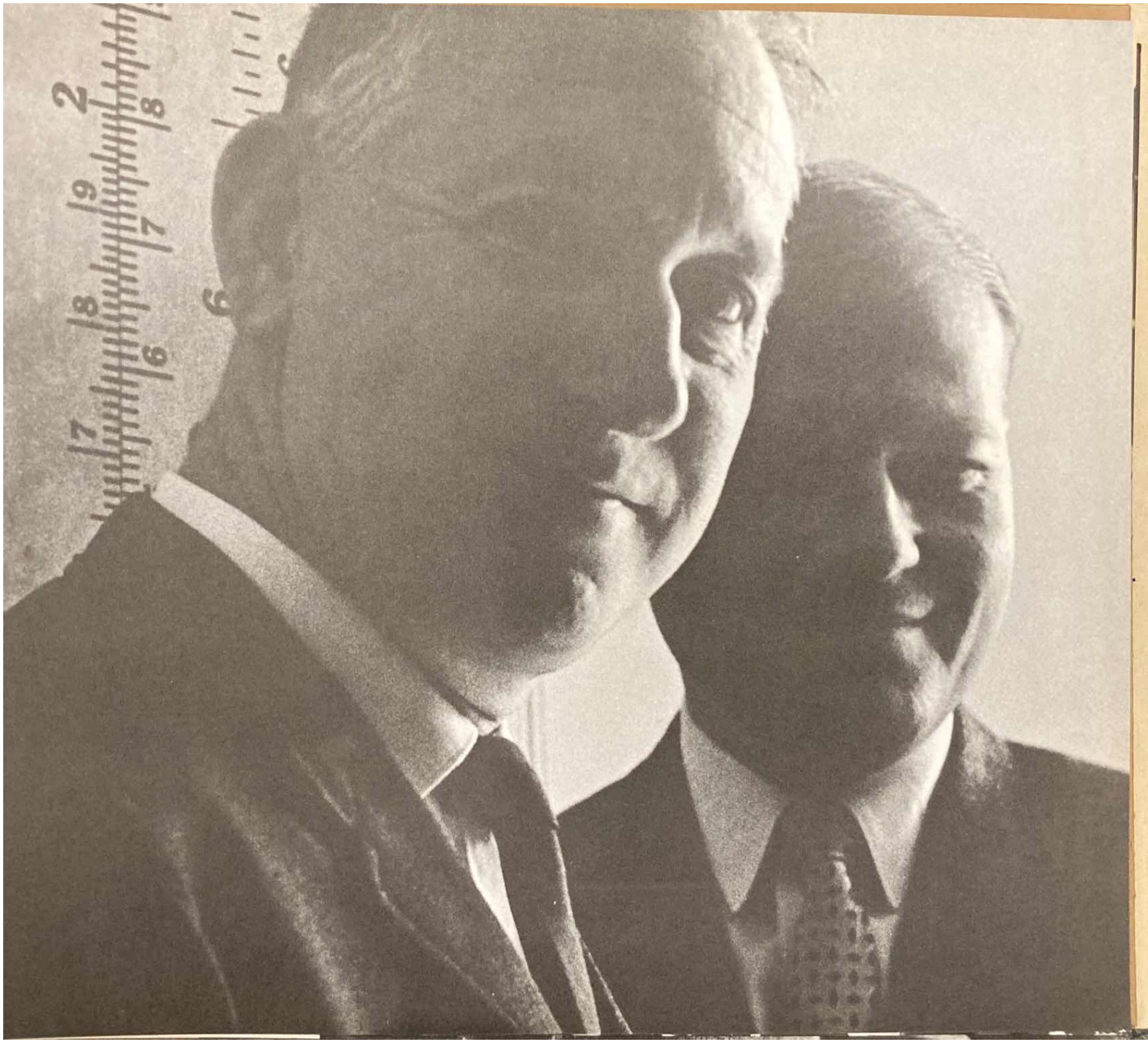


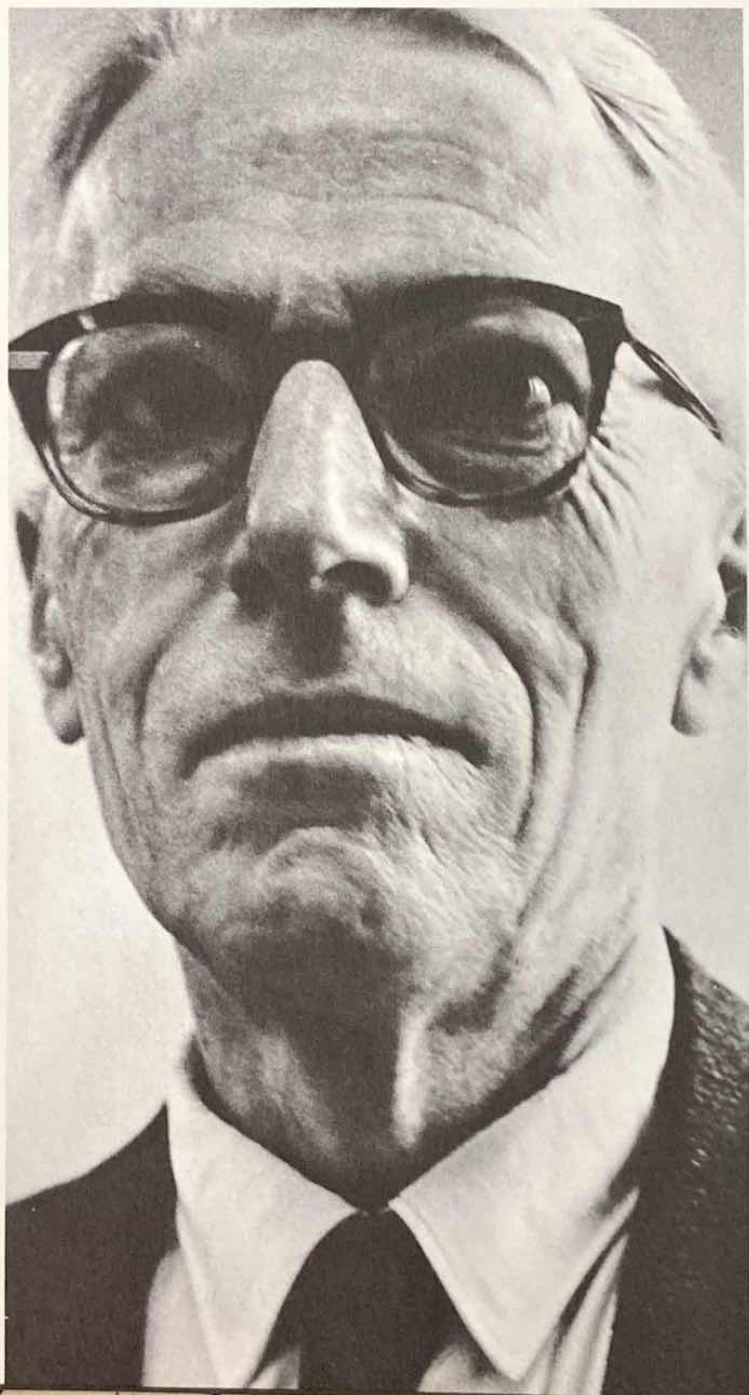


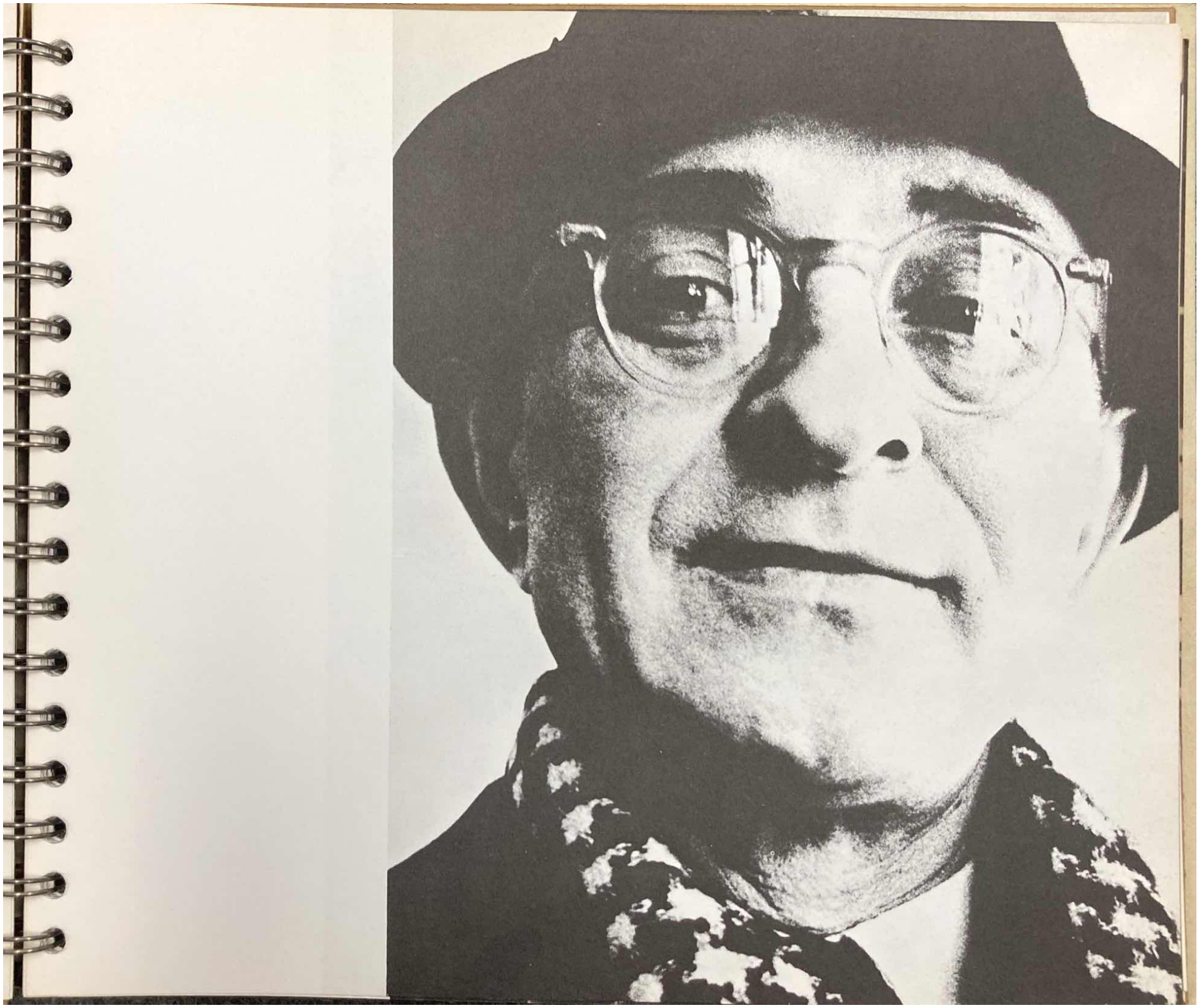


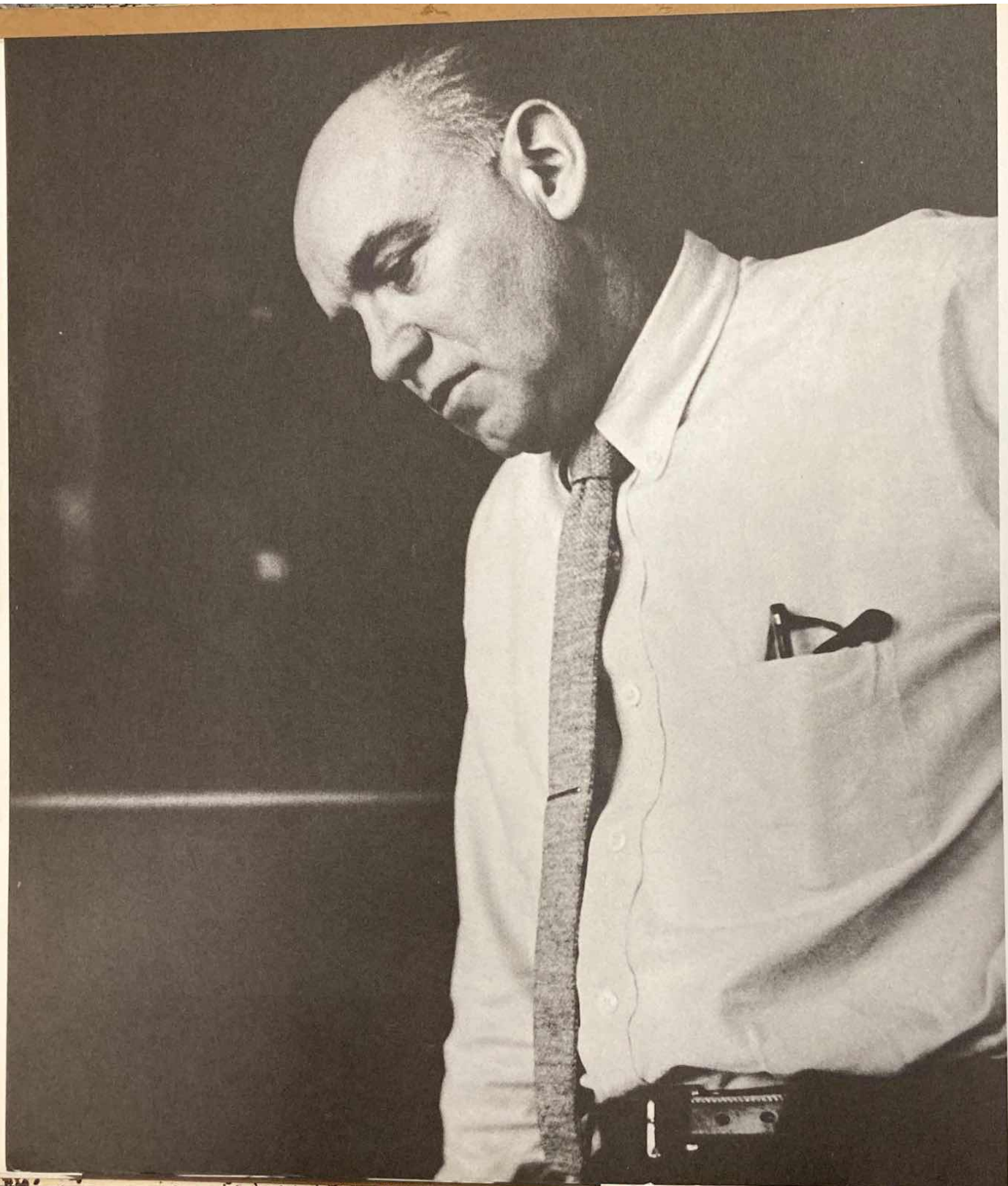


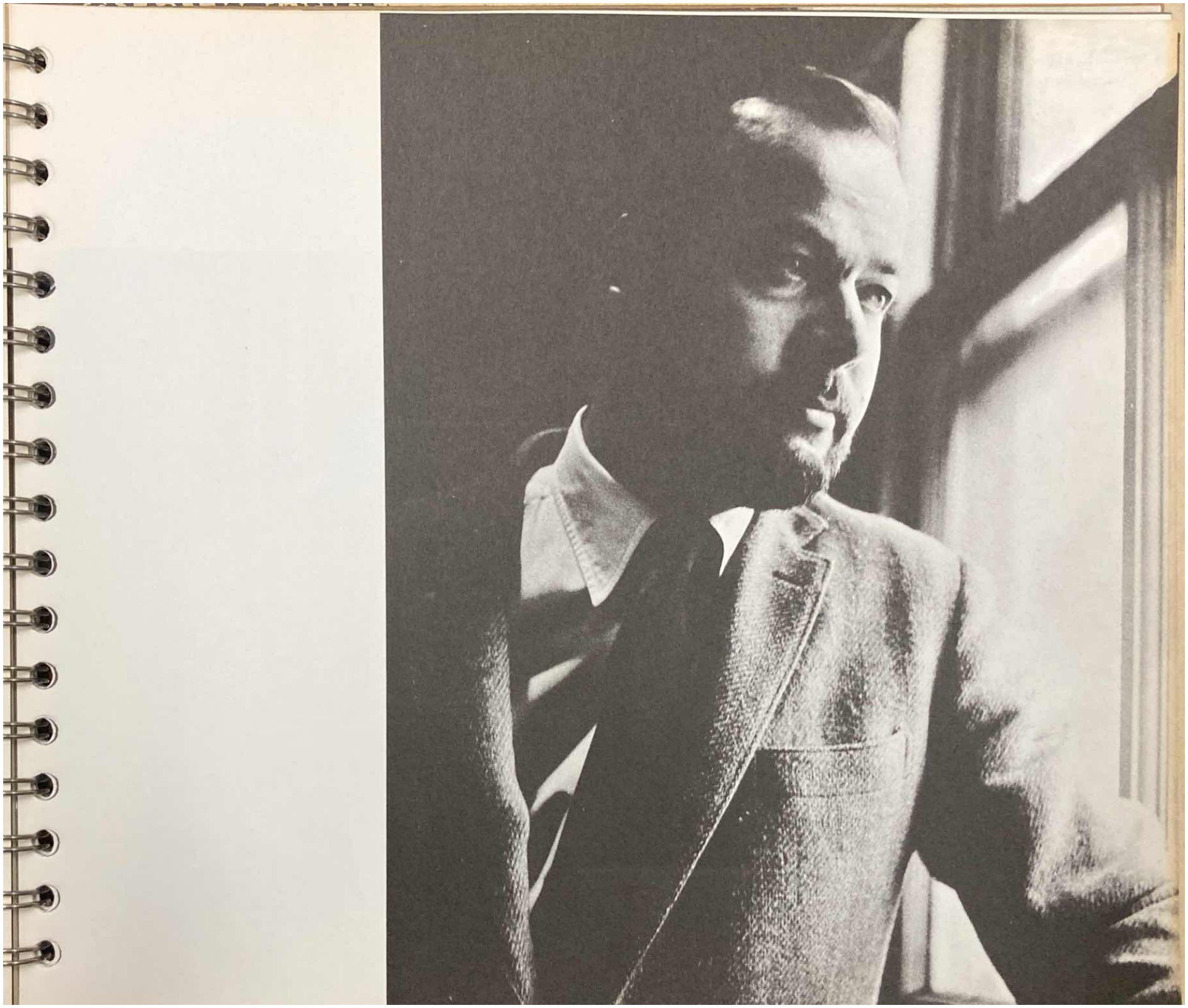


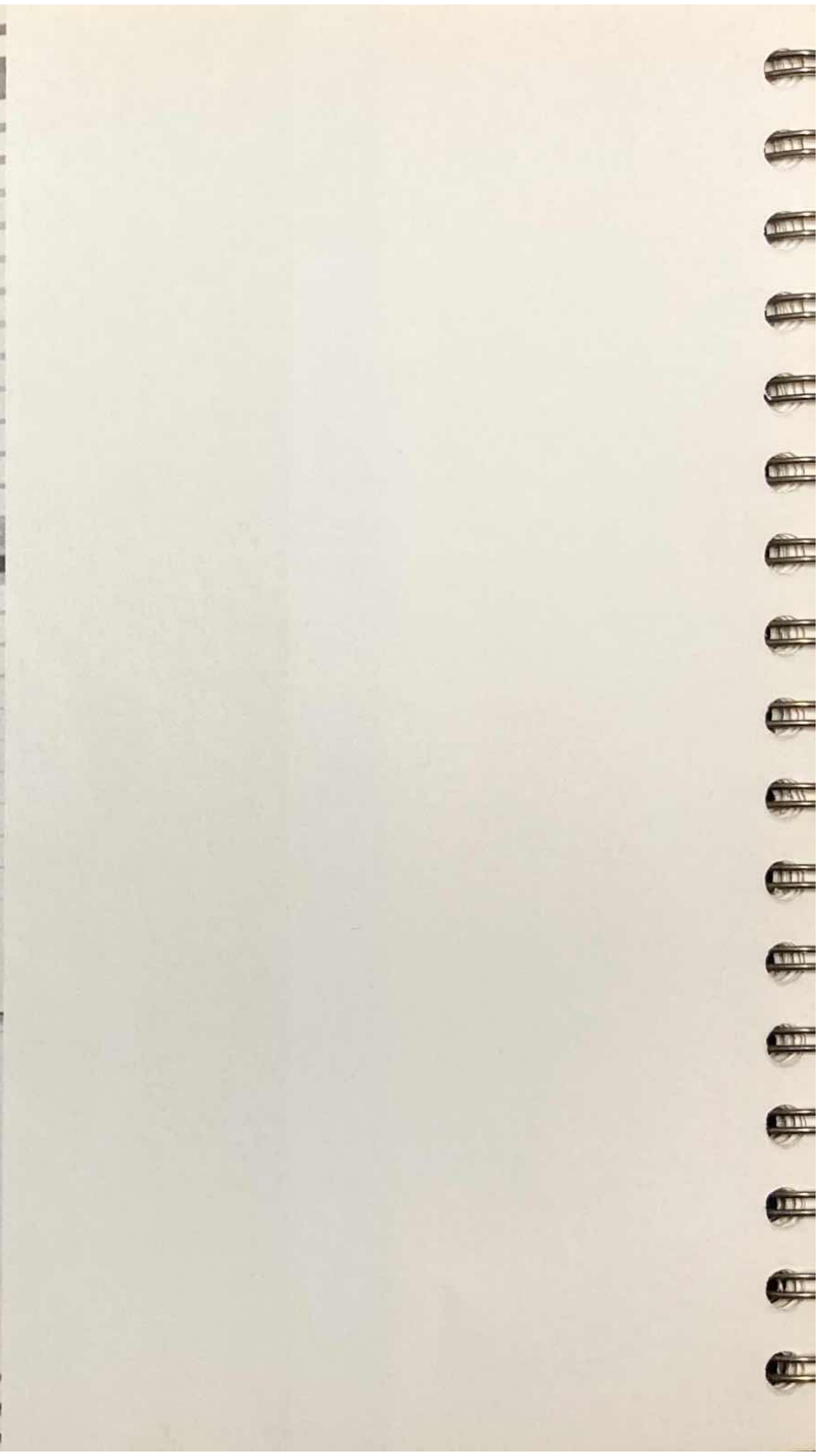
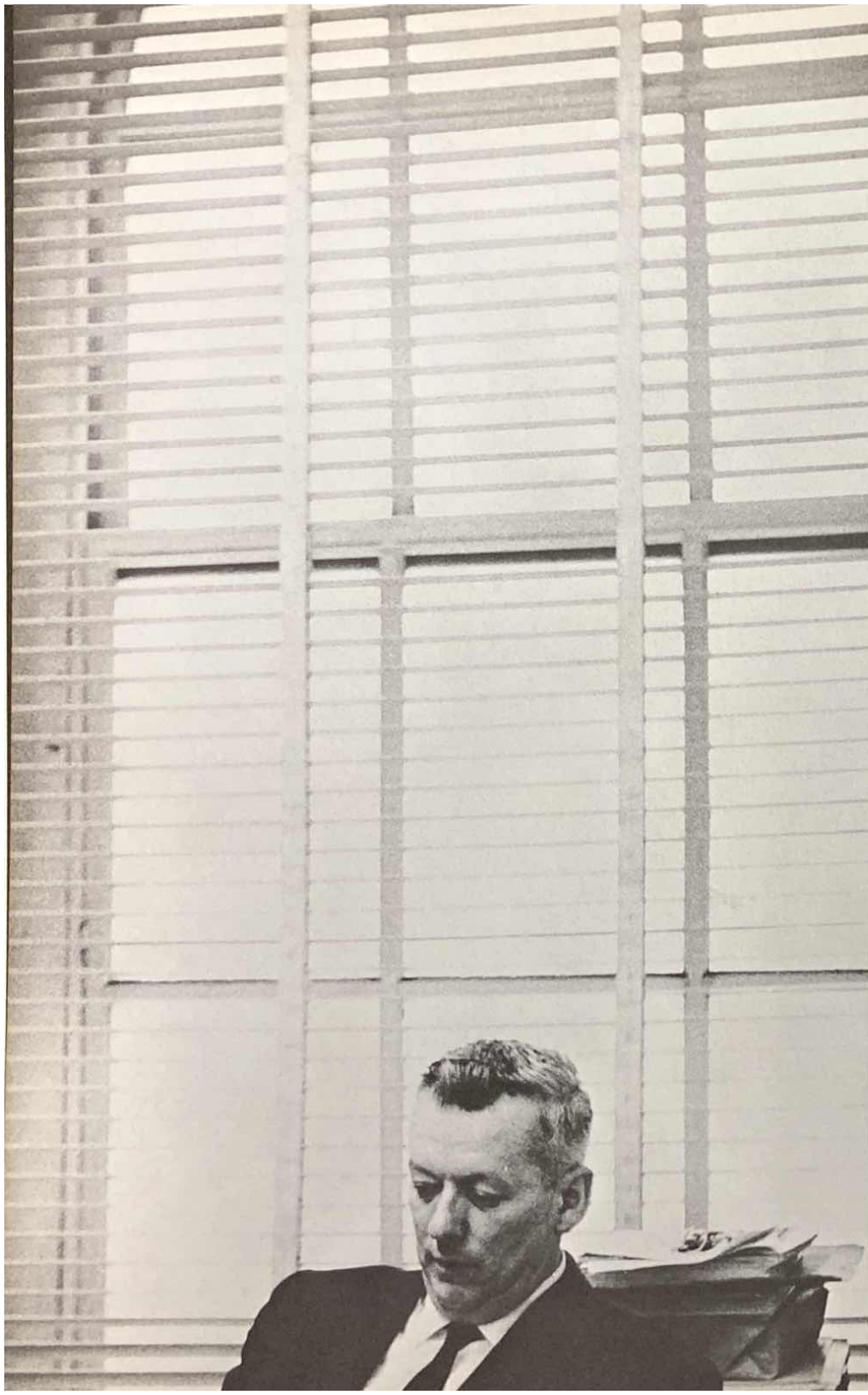


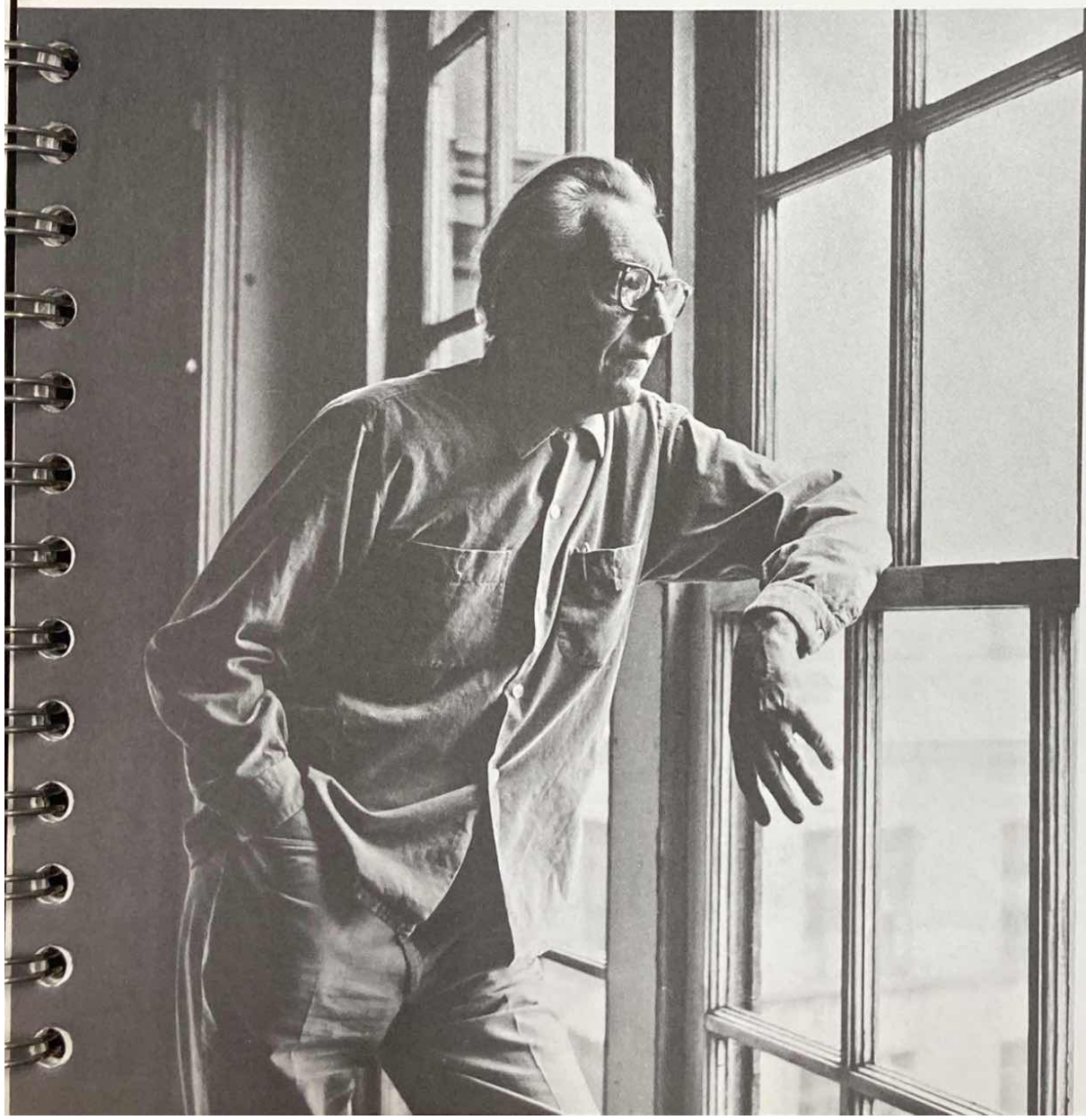


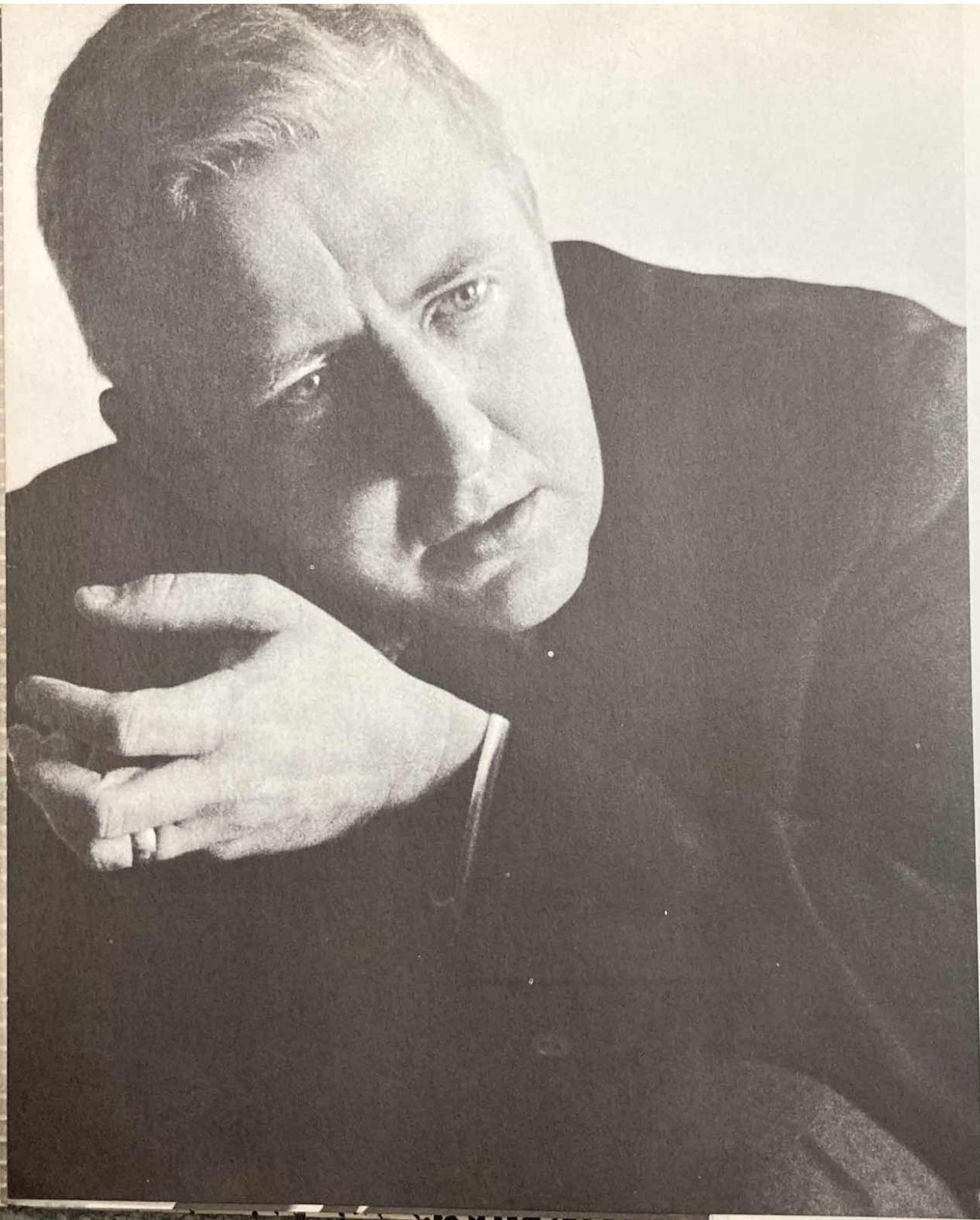












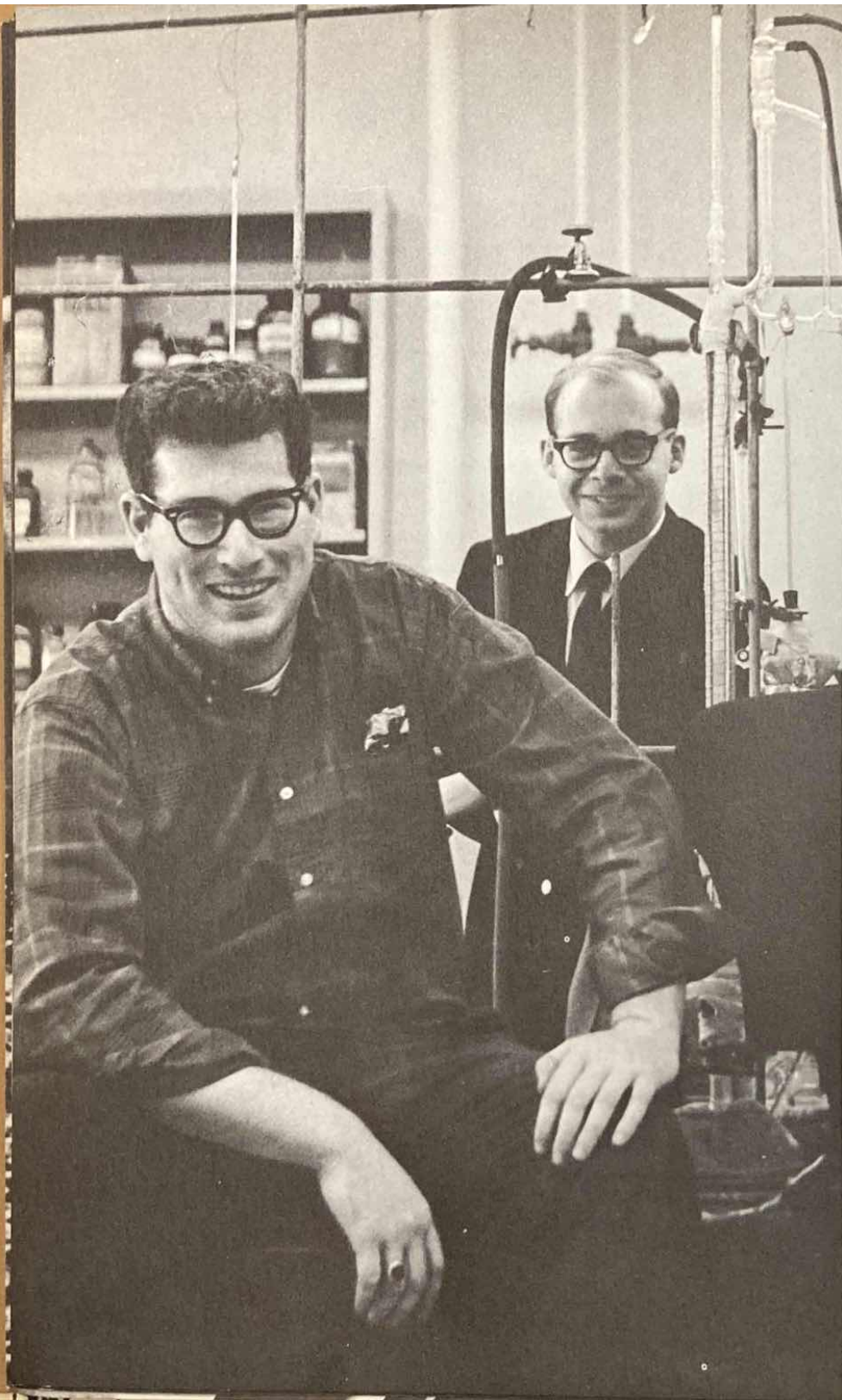


$$x = t \quad dx = dt$$

$$dx = 1 \quad x = e^{5t}$$

$$e^{5t} - e^{5t}$$

$$e^{5t}(t-1)$$



Robert Solomon
Aaron Serwetman

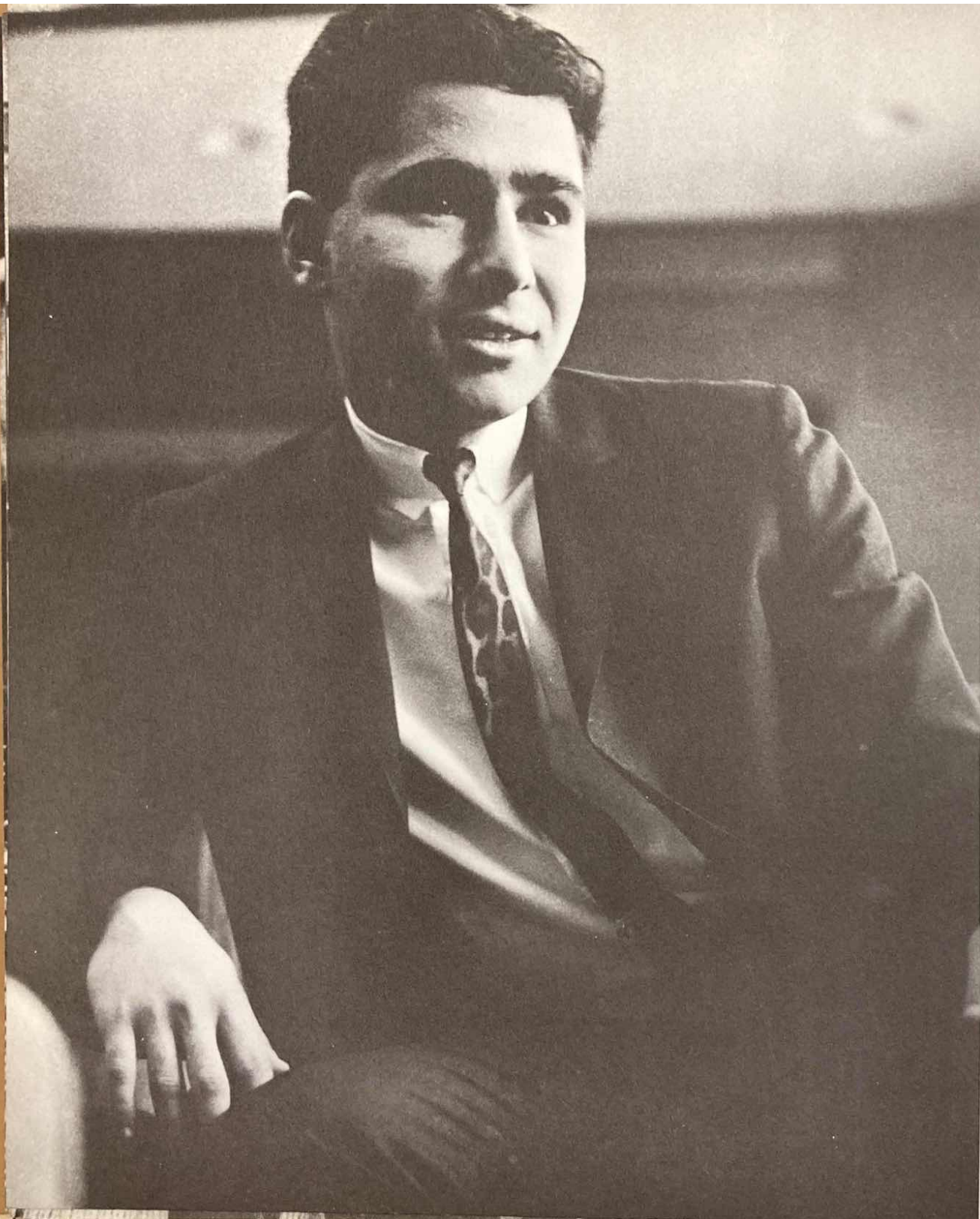
Steven Koestenblatt
Richard Rosenson
Bruce Freed
Brice Davis



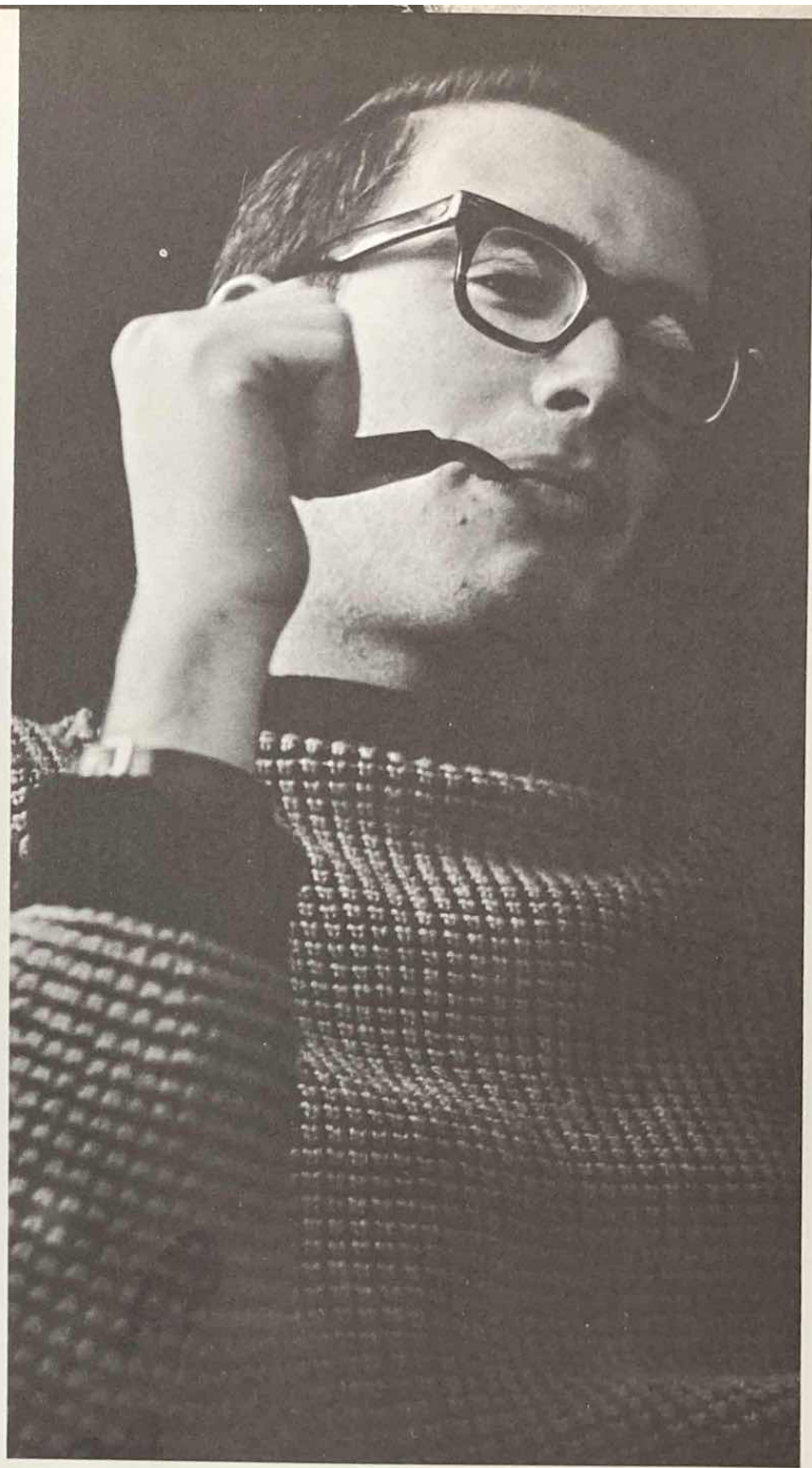


Kenneth Bridboard
Richard Fass
Ira Buchalter
Barry Ortenberg

Daniel Pittinsky
Marvin Greene
William Hirsh
William Calvin
Norman Lifshutz
Norman Lieberman



Benjamin Gross



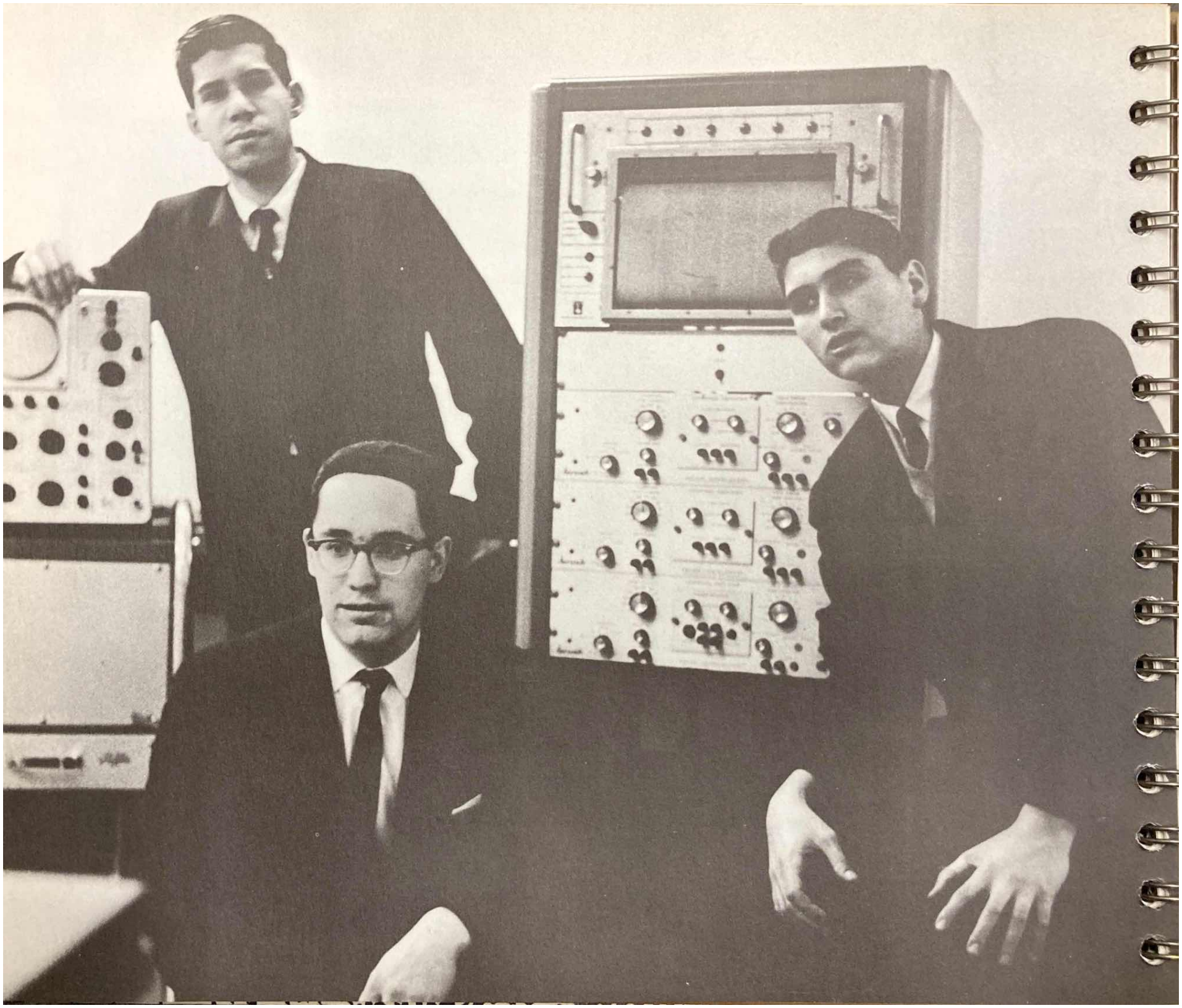
Solomon Peltz



Raymond Burk

Harvey Kosherrick
Jesse Schwartz







Michael Schulman Gary Chavez

David Perelman
Robert Schilling
Michael Greenberg

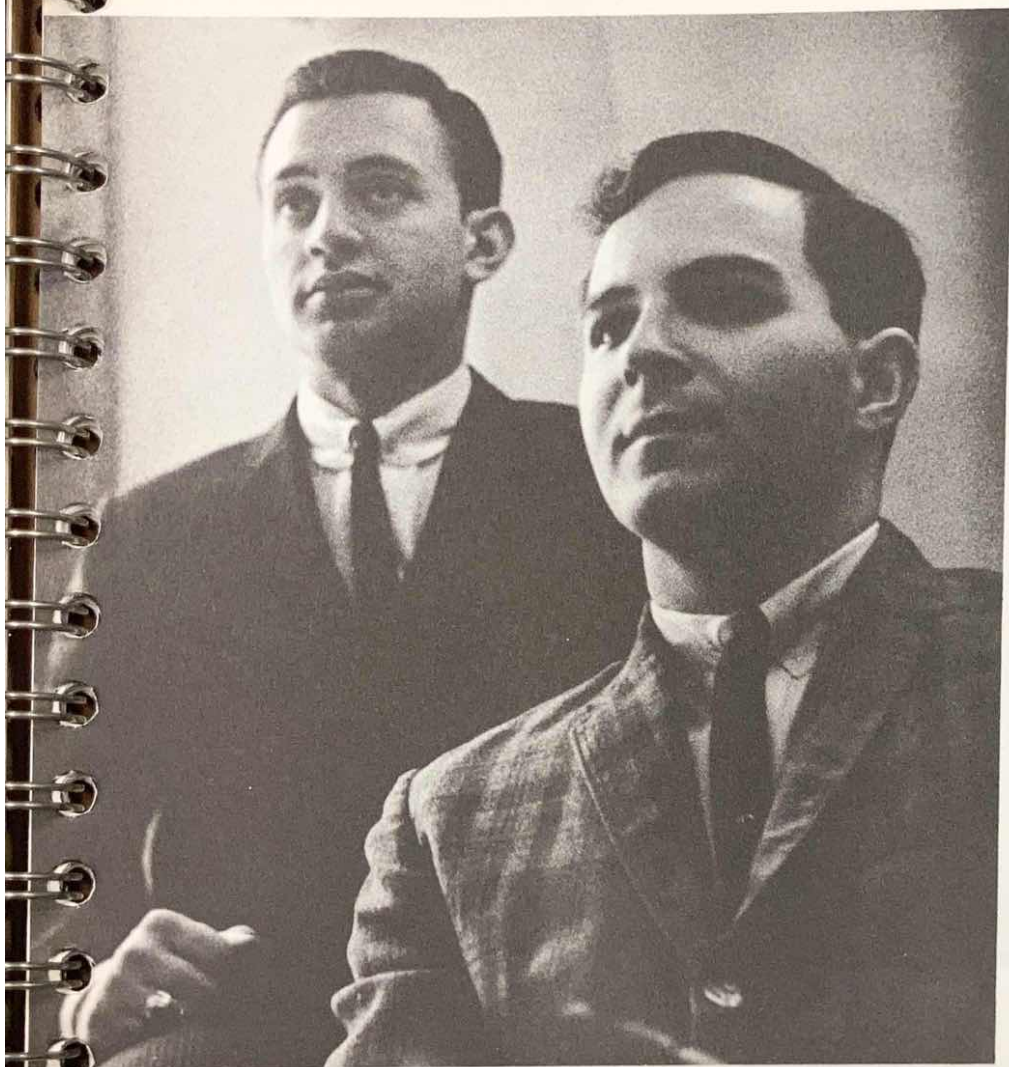


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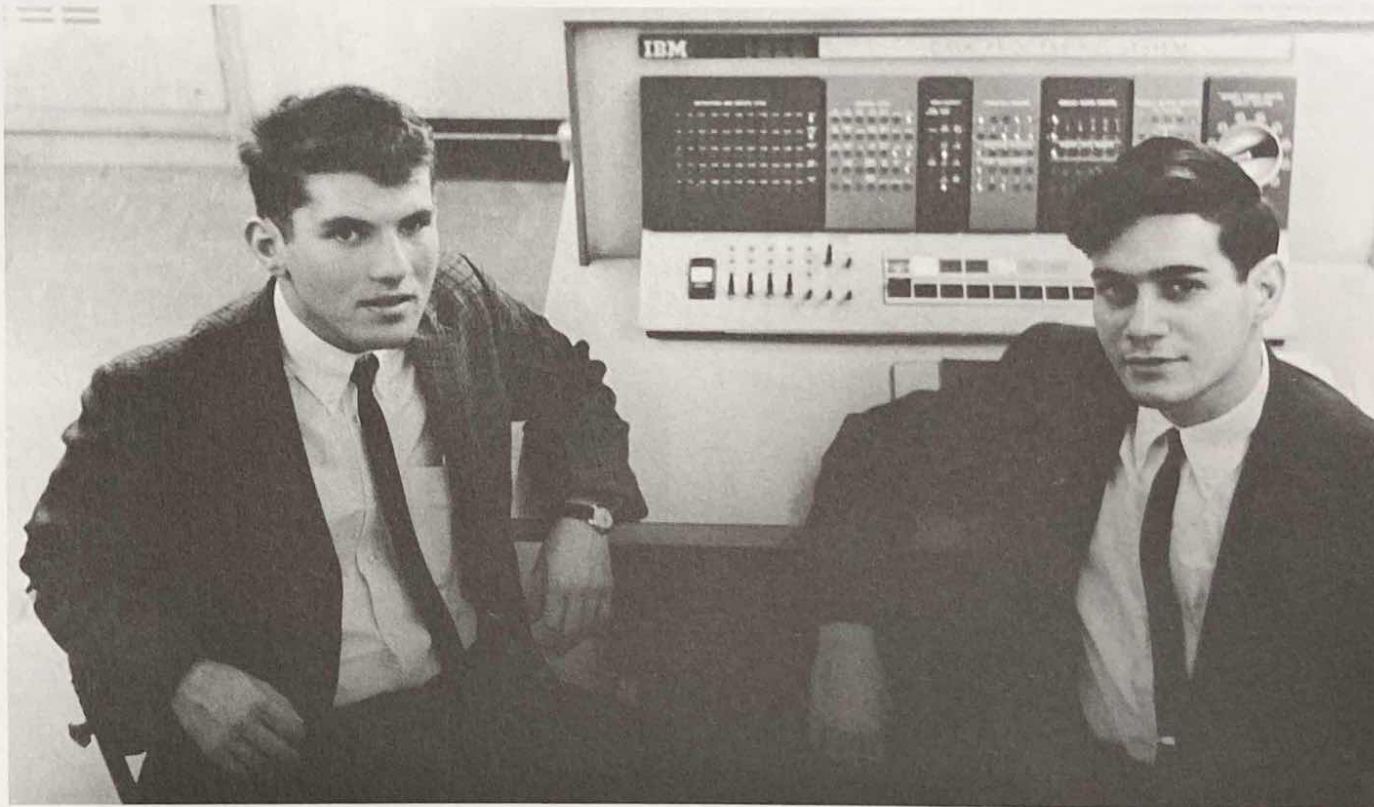


Vincent Grillo Michael Cohn

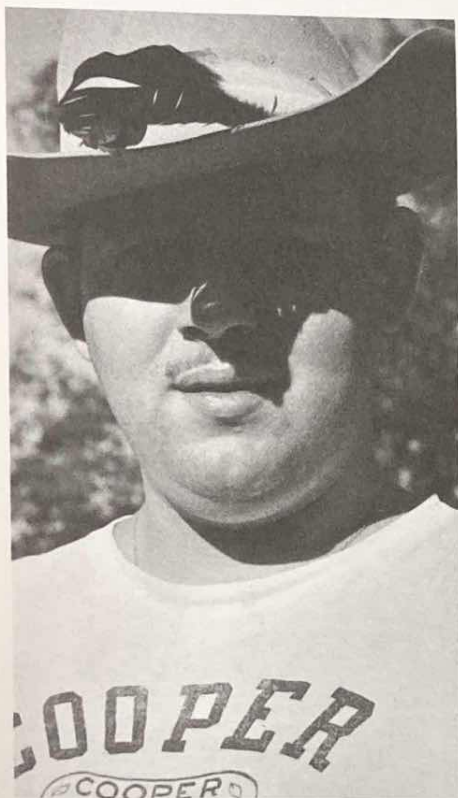


Eugene Briskman Murray Sharkey Gerald Dubin

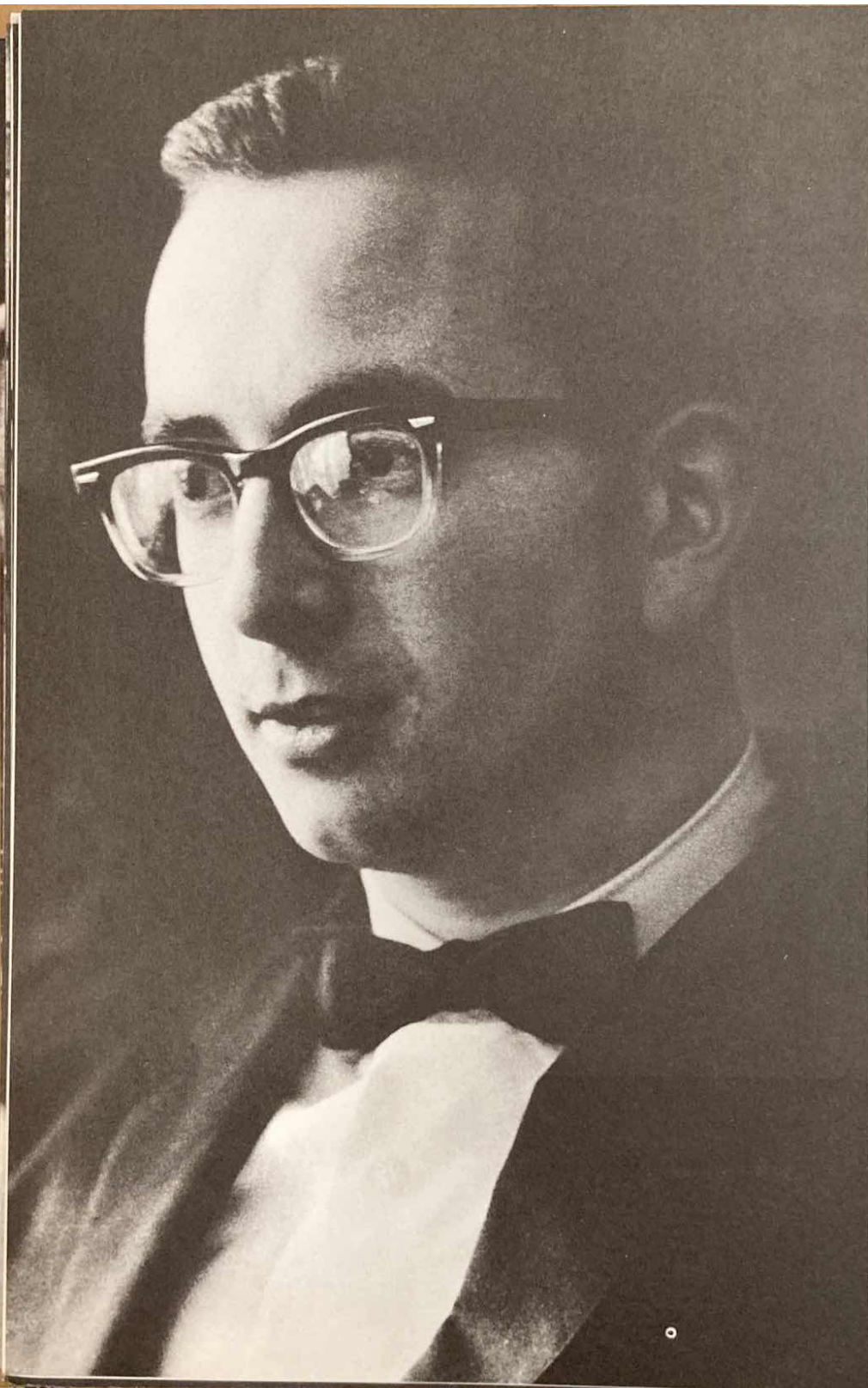
Daniel Hegarty Eugene Soltero



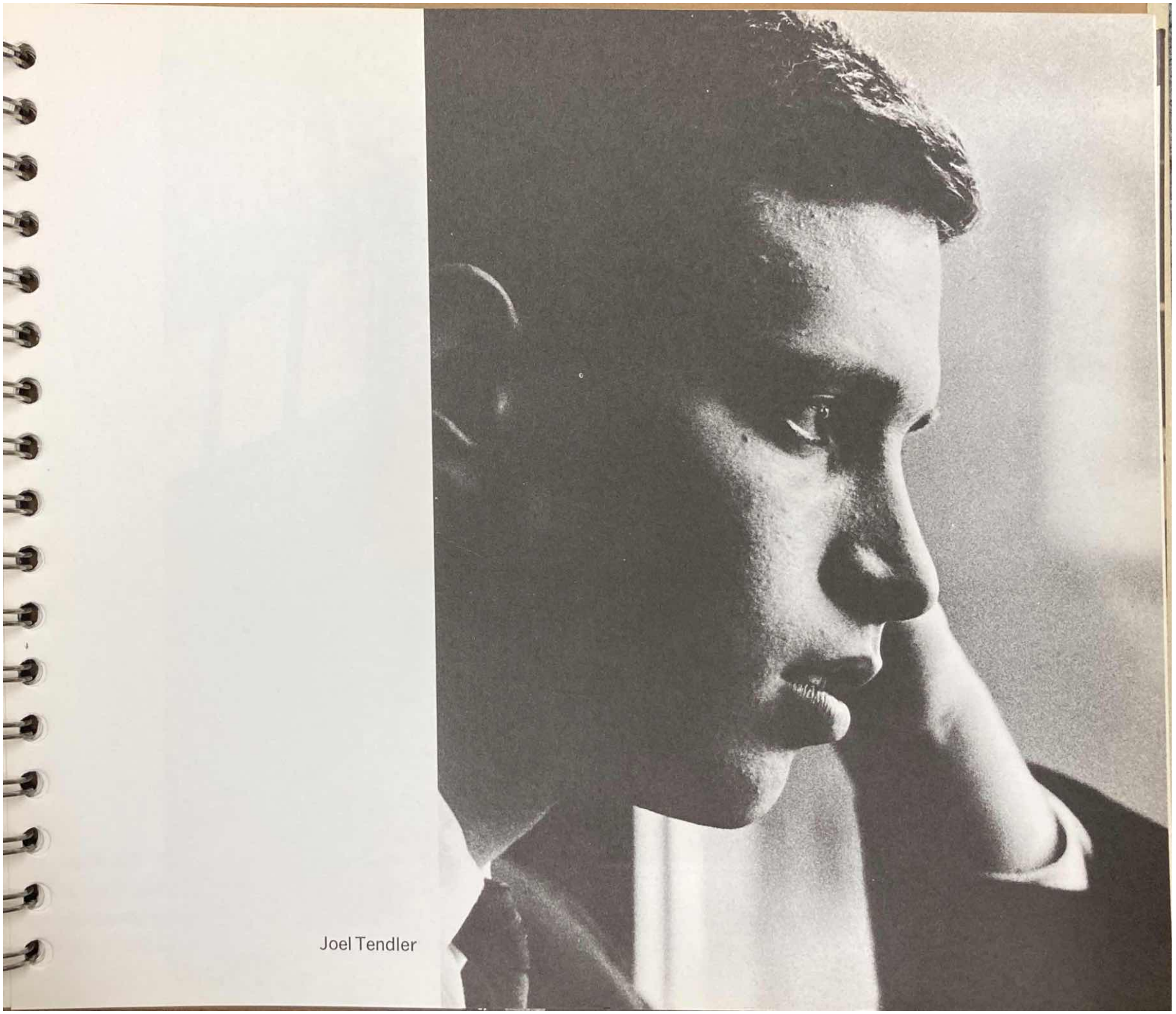
Sanford Davis Richard Rand



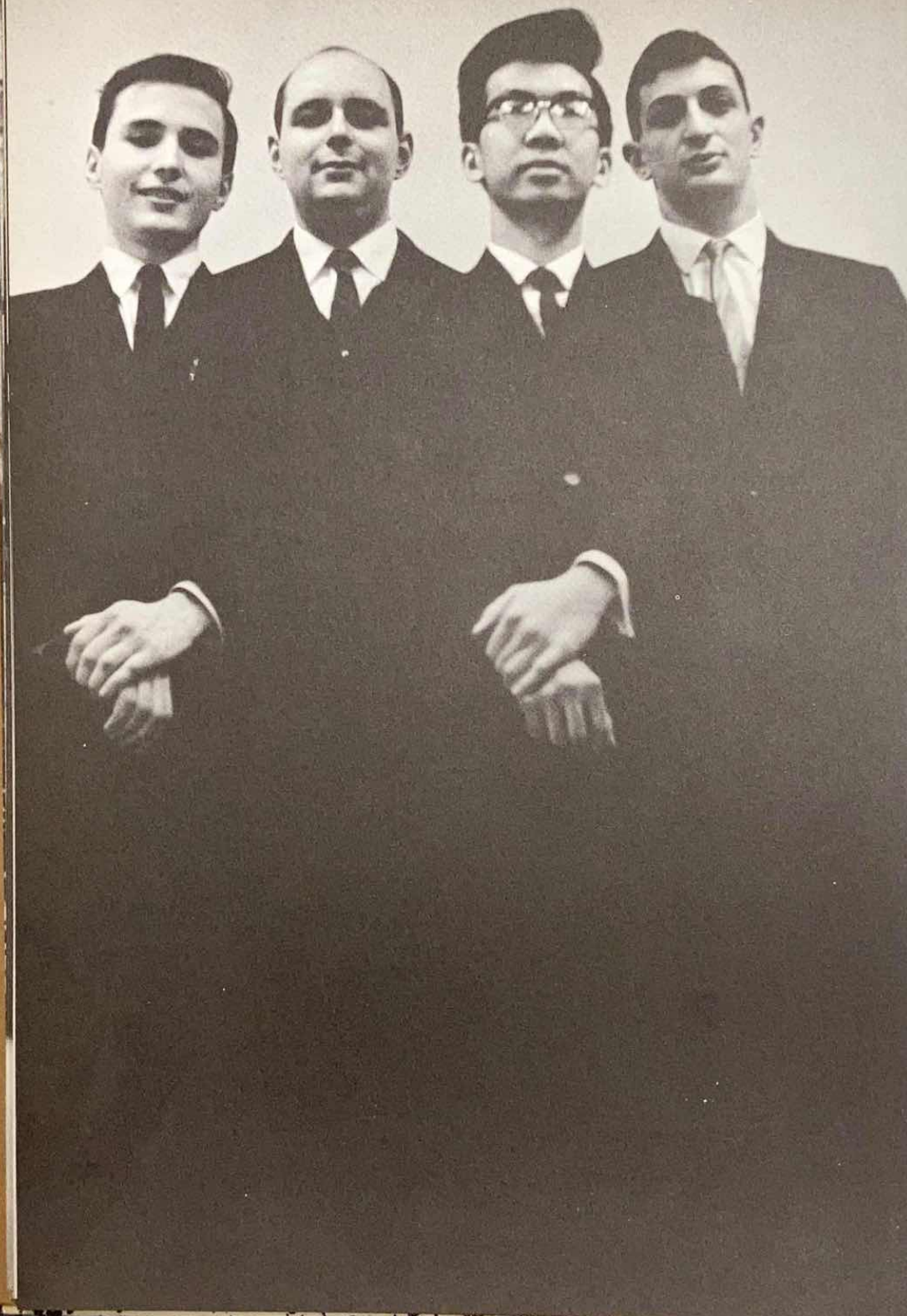
Murray Singer Gilbert Bank



Louis Braida



Joel Tandler



John McGinley
Jay Lassman
Frederick Chang
Frederick Stern

Carl Kugel
Victor Berman
Peter Danilchick
Gordon Swartzman







Herman Bilenko



Samuel Feldman

Walter Pumo

Tony Culmone

Edward Walvick

Rudolph Drechsler

Roy Rosner



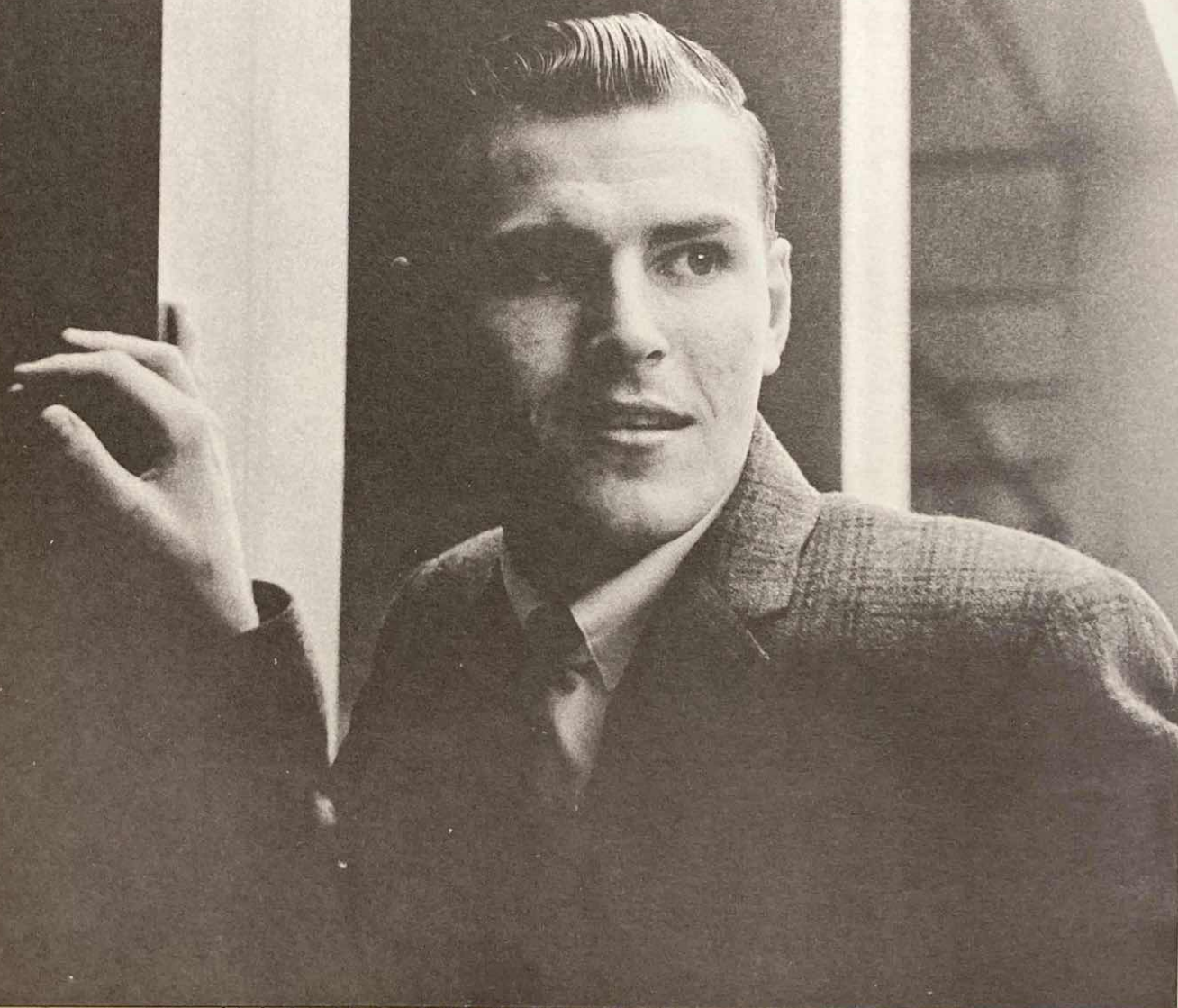
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Ralph Dratch

Jeffrey Hill
Gregory Farrell
Bill Gavigan
Theodore Balderes





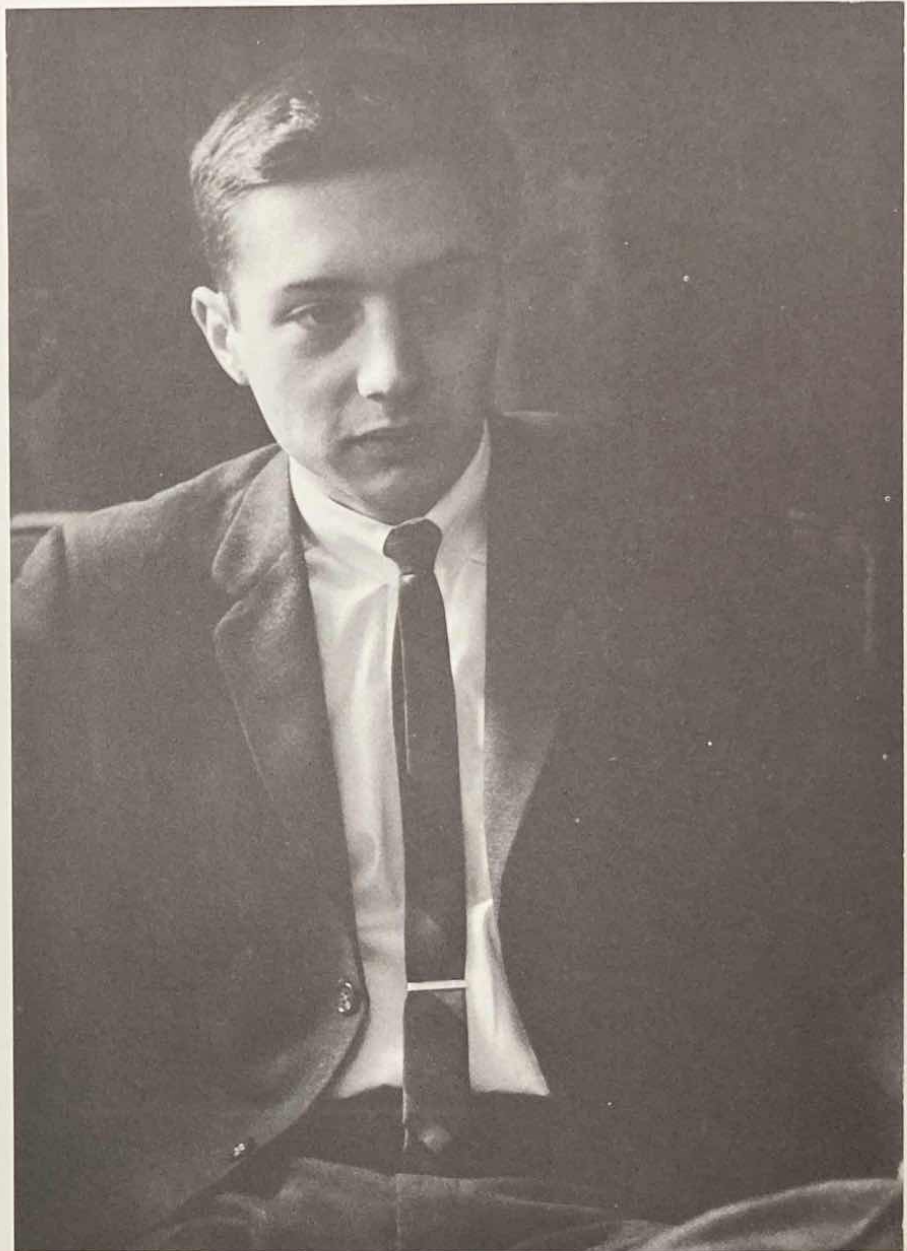
Jim Hladek

Robert Greenberg





George Reeves



Leonard Kurzweil

Bruce Simmons

Robert Menton



Edward Goldfinger
Walter Feldt
Richard Gariazzo



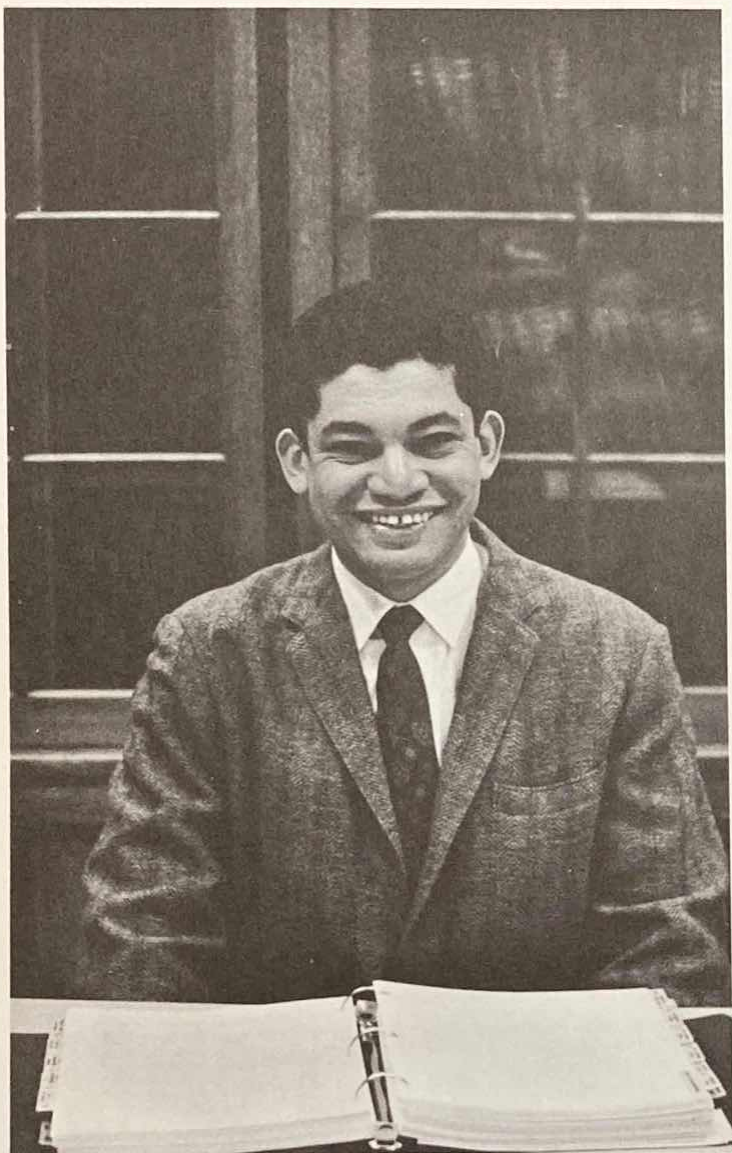


Kaare Varlien Robert Osgood

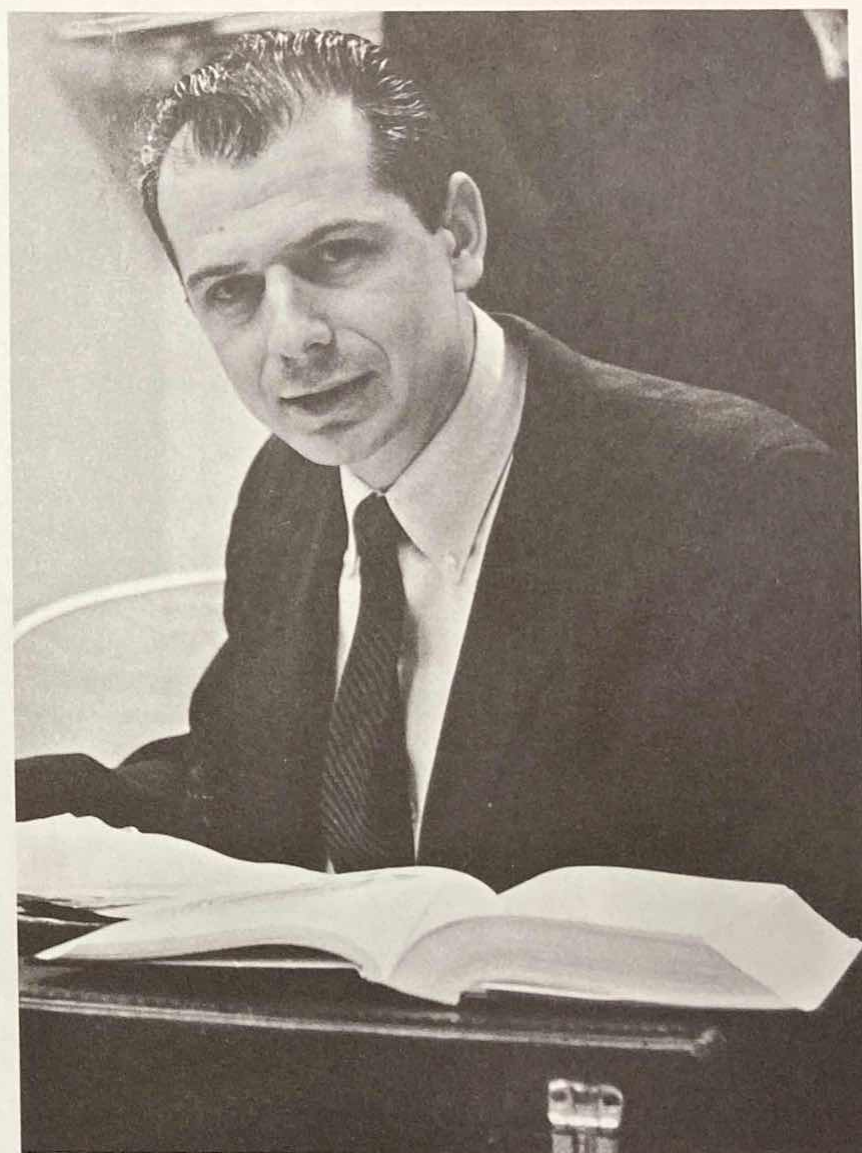
Stanley Blumenthal

Richard Giordano

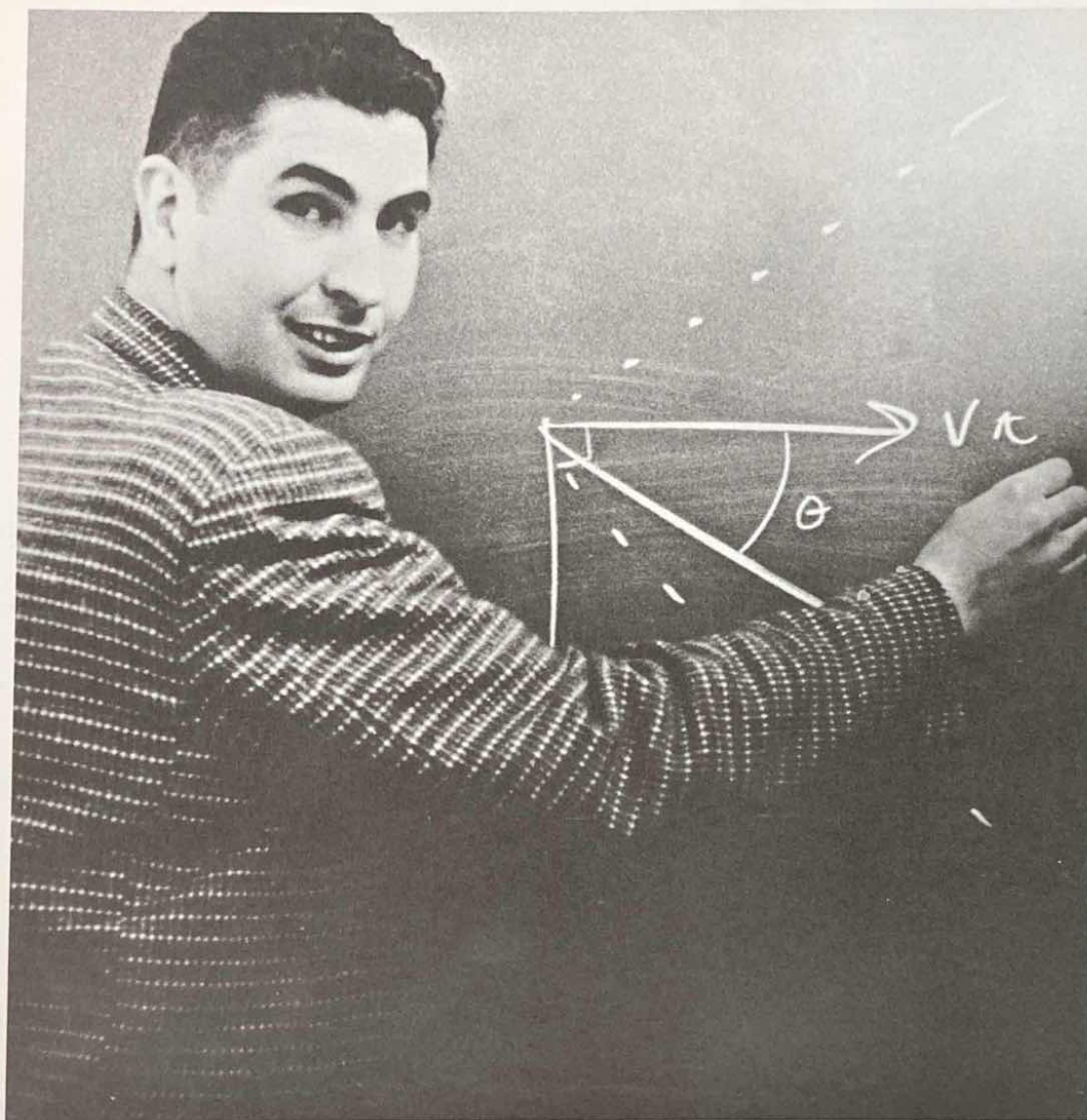
William Herbig



Angel Morales



Joseph Wlaysewski



Nicholas Andriotty



Roger Sullivan



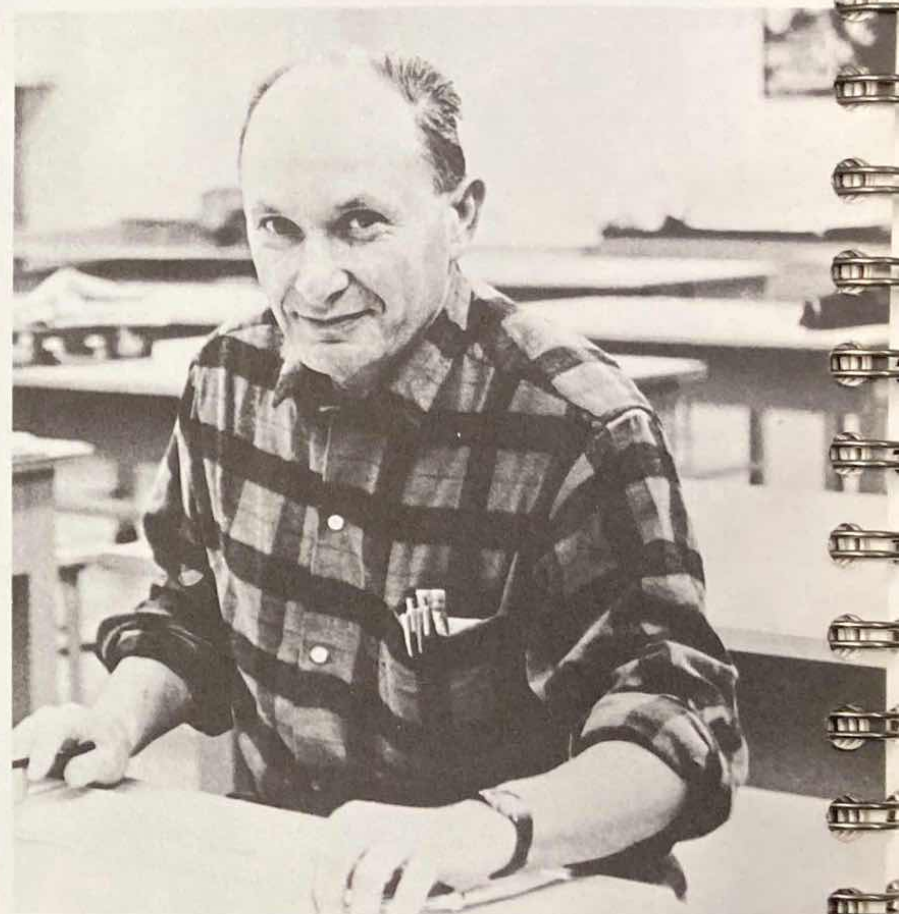
John Glushko

Michael Moran





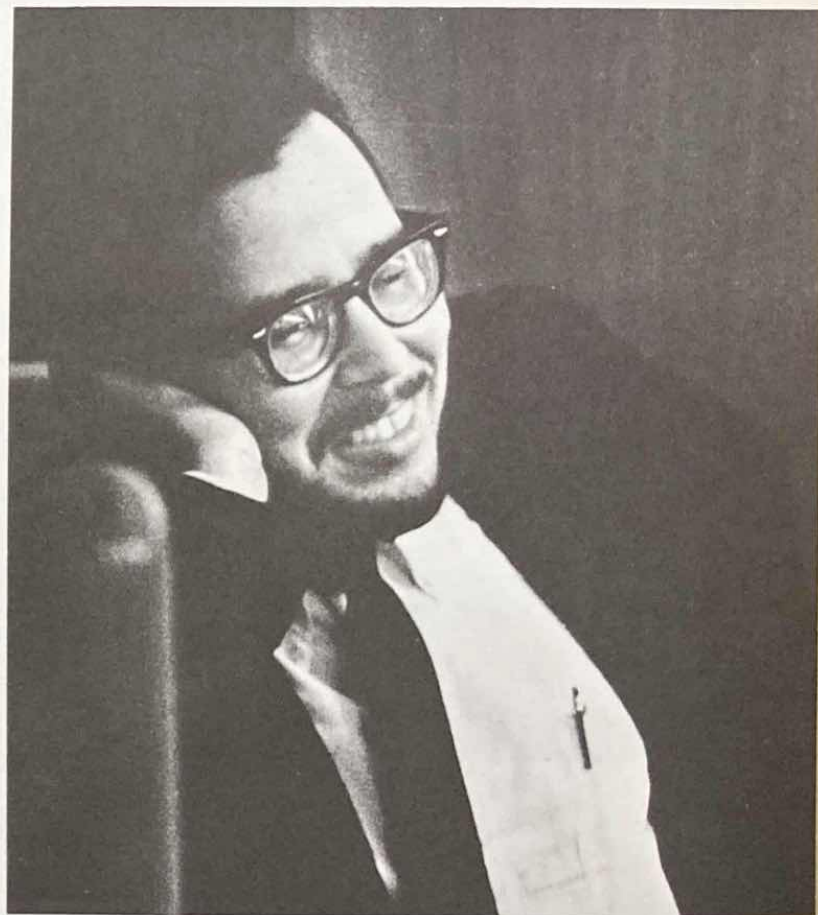
Michael Munk



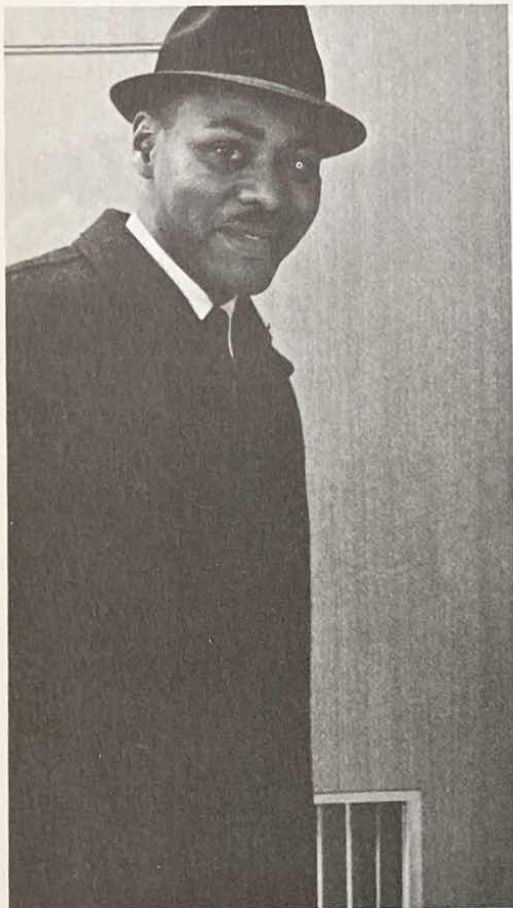
Samuel Dudowitz



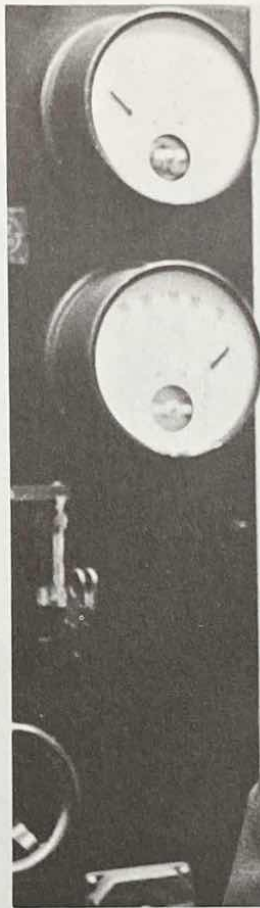
Jay Golub



Albert Sanchez



William Ingram



John McCabe

Eddie Schairer



Louis Reveron William Meyers



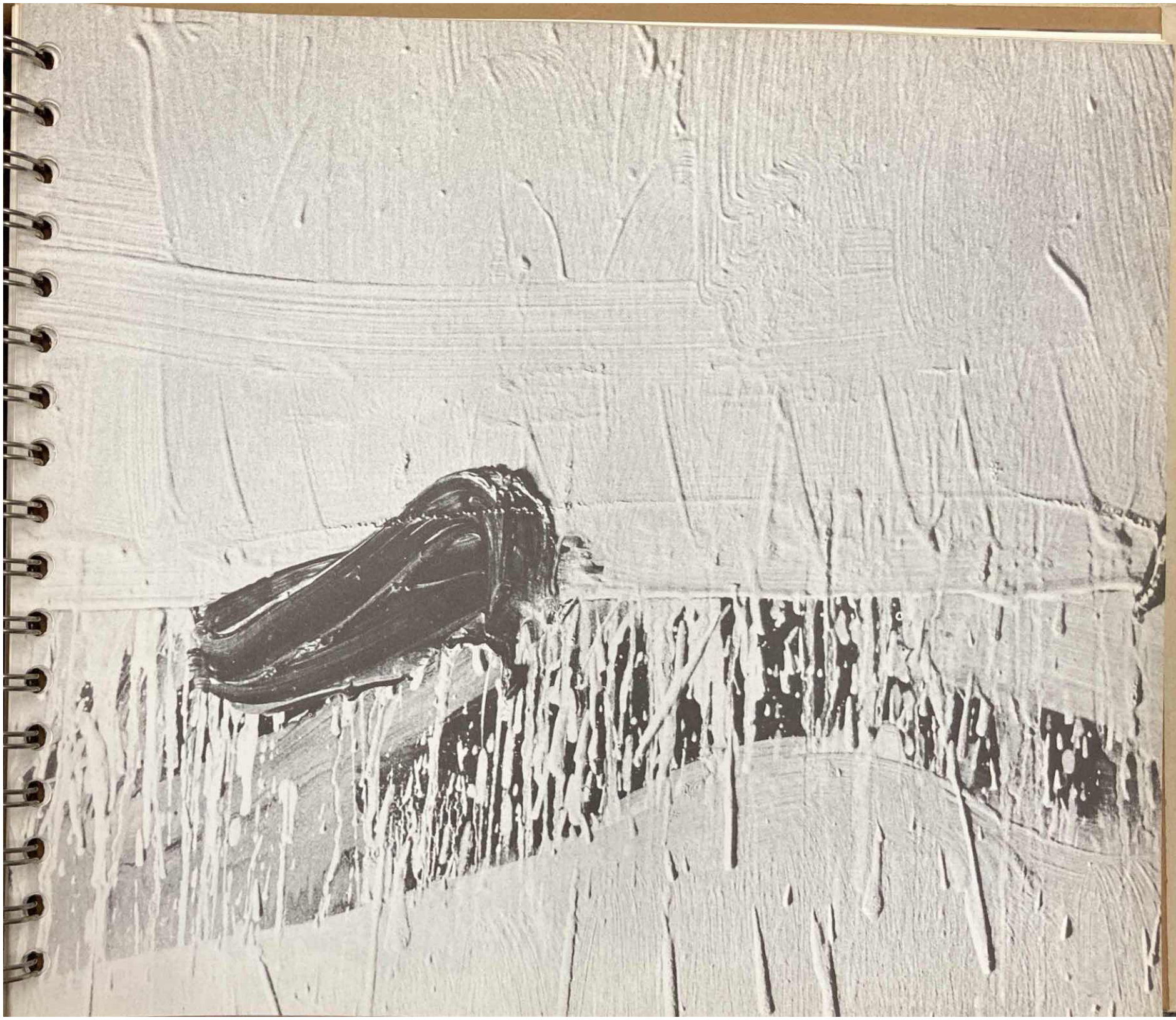


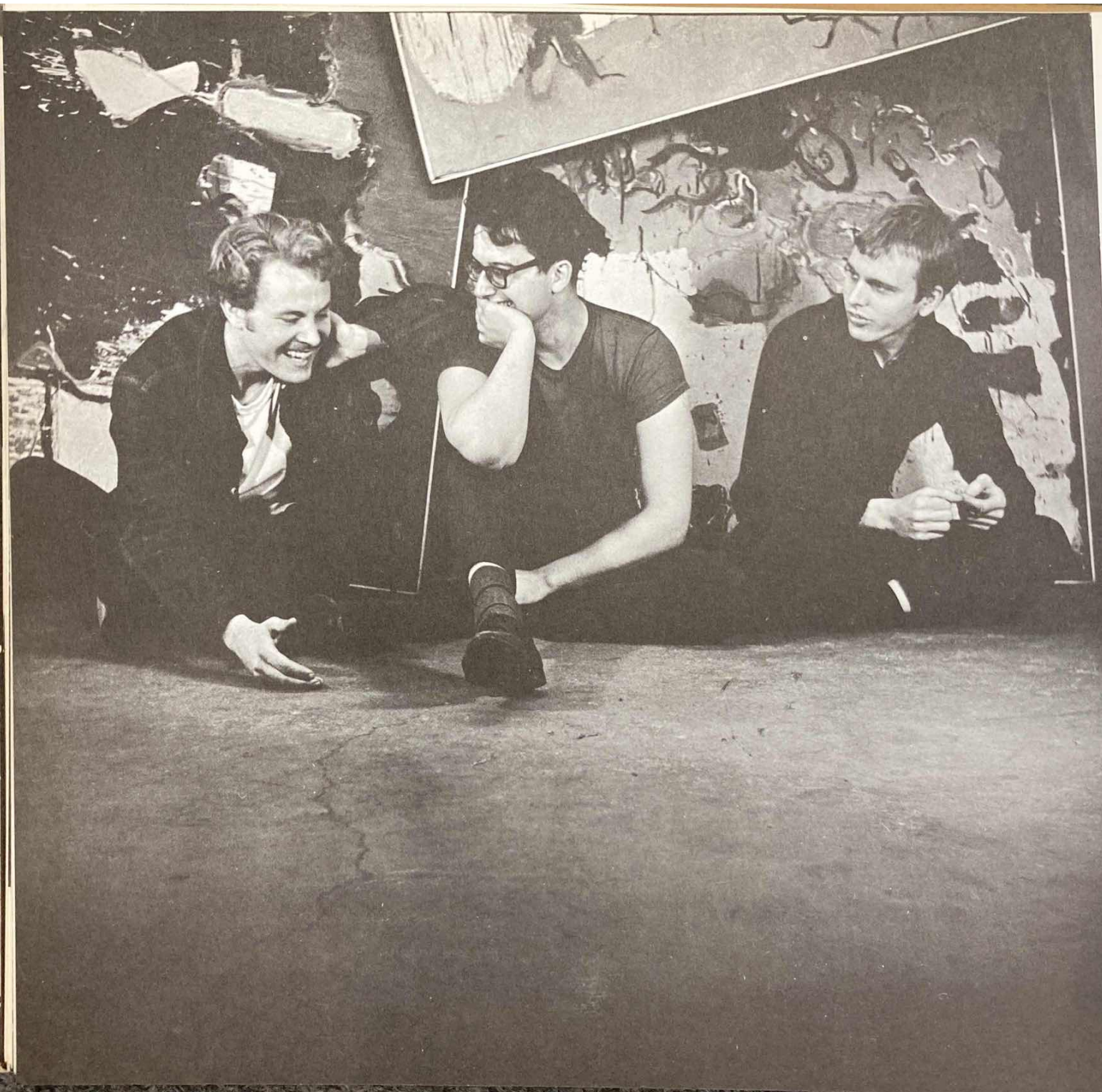
Harold Kohlmann
Frank Roell
Wilfred Thoms
Hildebrand Rivers



Edward Bruno
Alfred Van Dyken
Stephen Bazik
Salvatore Marino



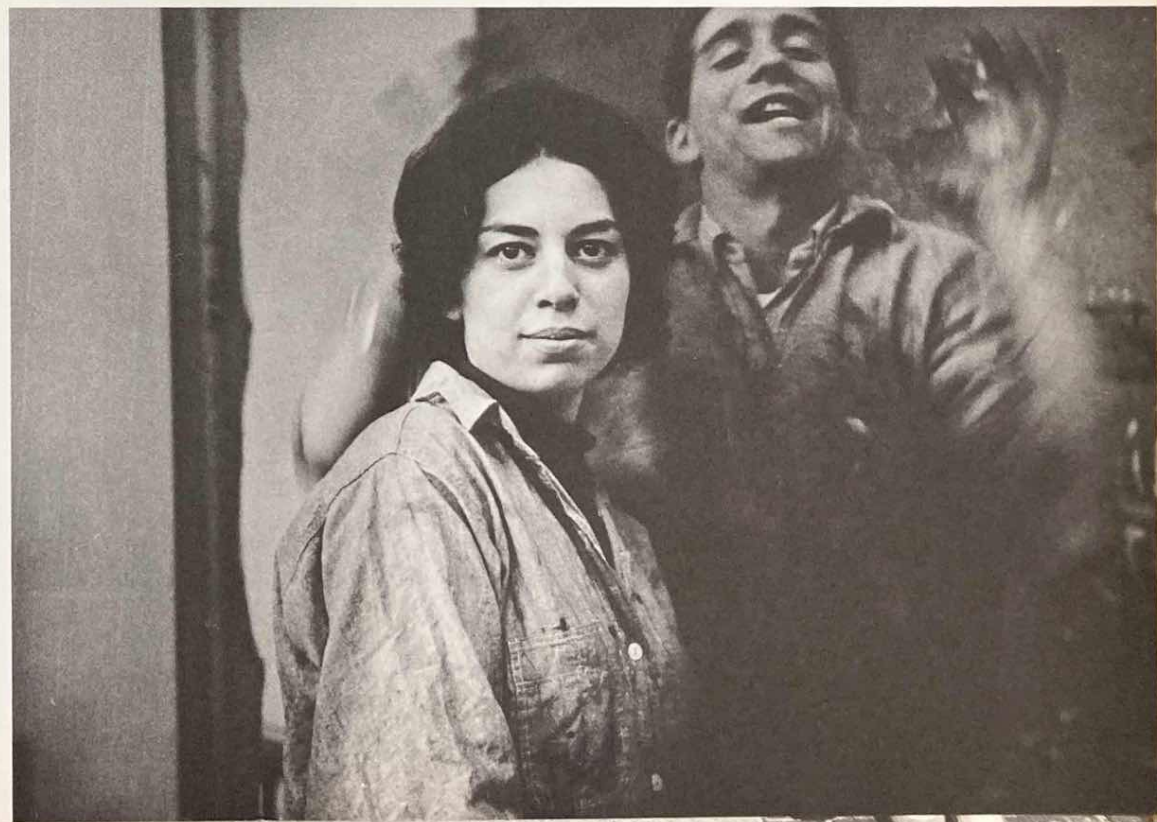


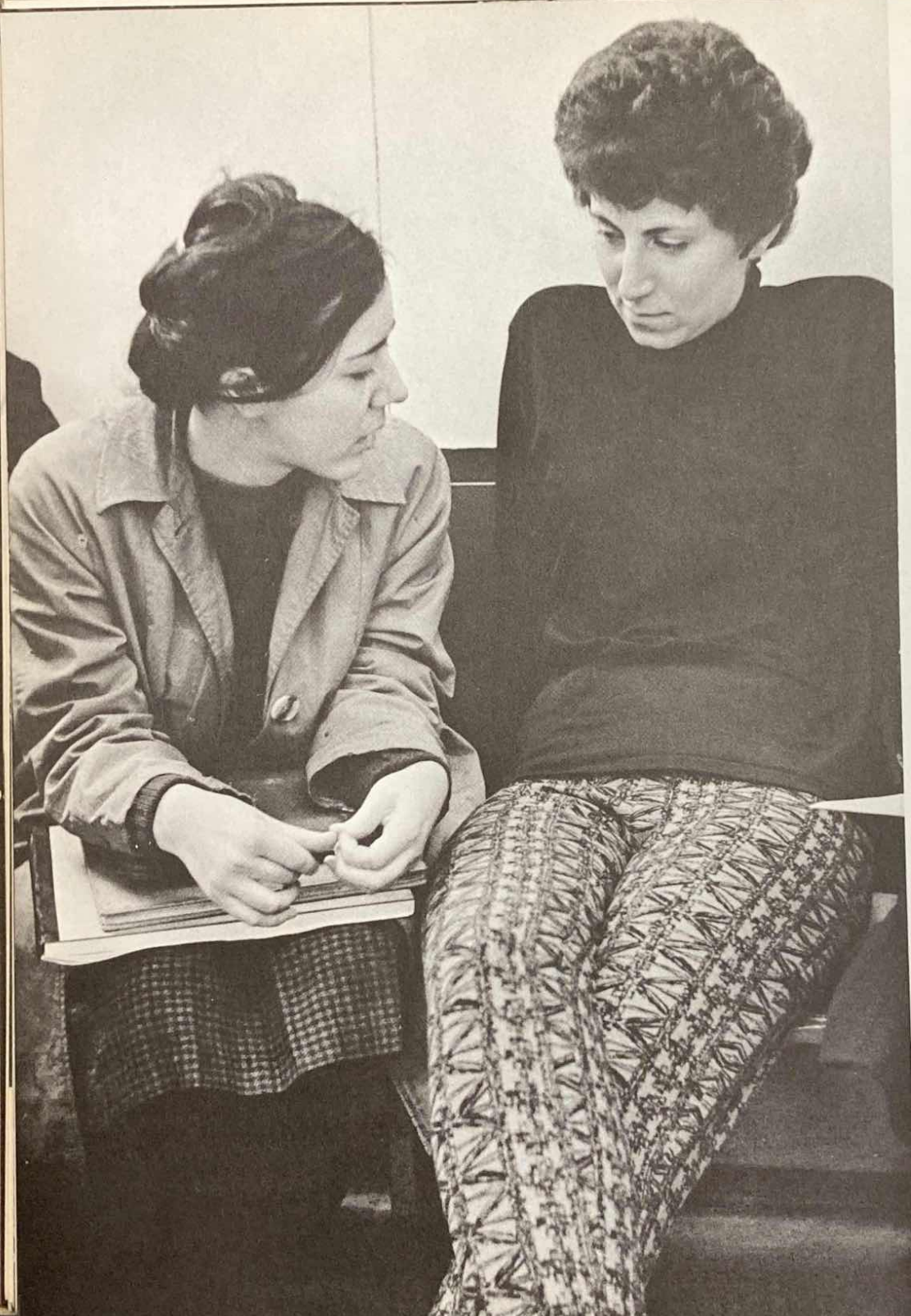


David Fradin
Jean Radosta



Will Ortlip
George Parrino
William Giersbach

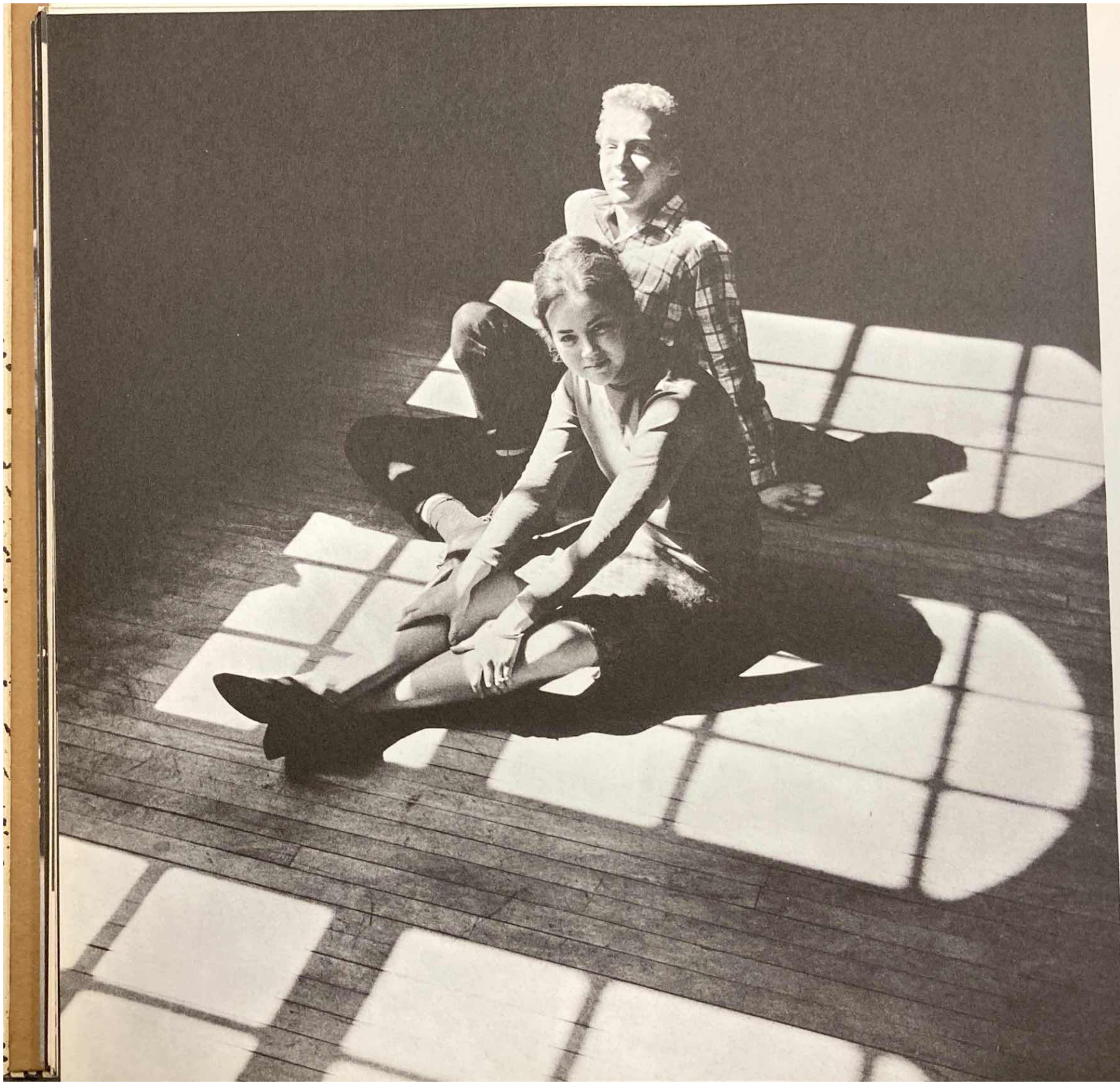




Leslie Budish
Alice Cohen
Judy Garelick
Lynn Smith
Janet Gasson

Arakci Chimchirian Evelyn Kates





Giulio Maestro
Joan Rhine

Francine Tomlin
Michael Gordon
Norberto Chiesa





Benjamin Schoenzeit

Arlene Eisenberg

Lee DeJasu

Howard Buchwald

Susan Rabineau

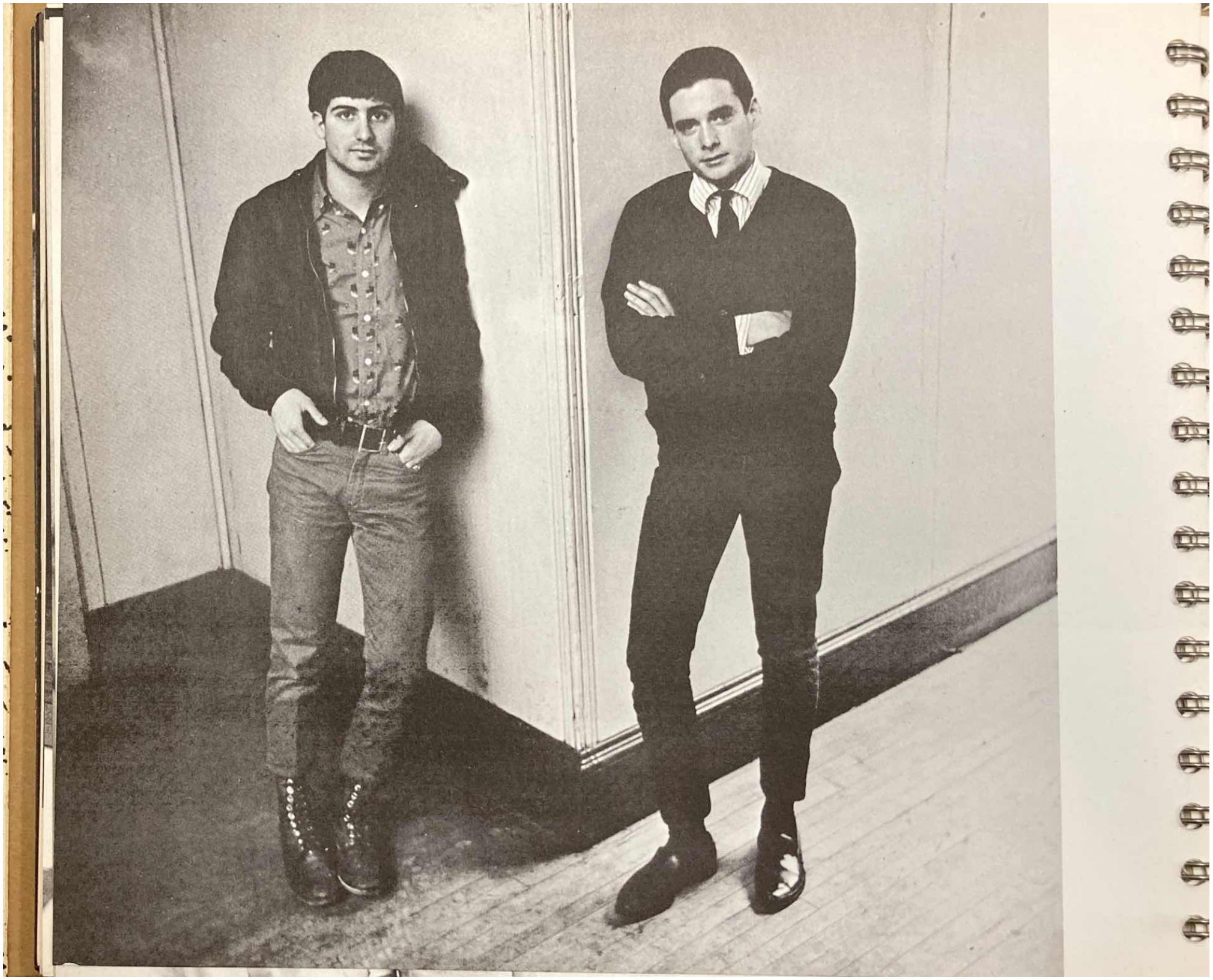






Winifred Bendiner Susan Schoenfeld

Mary Evelyn





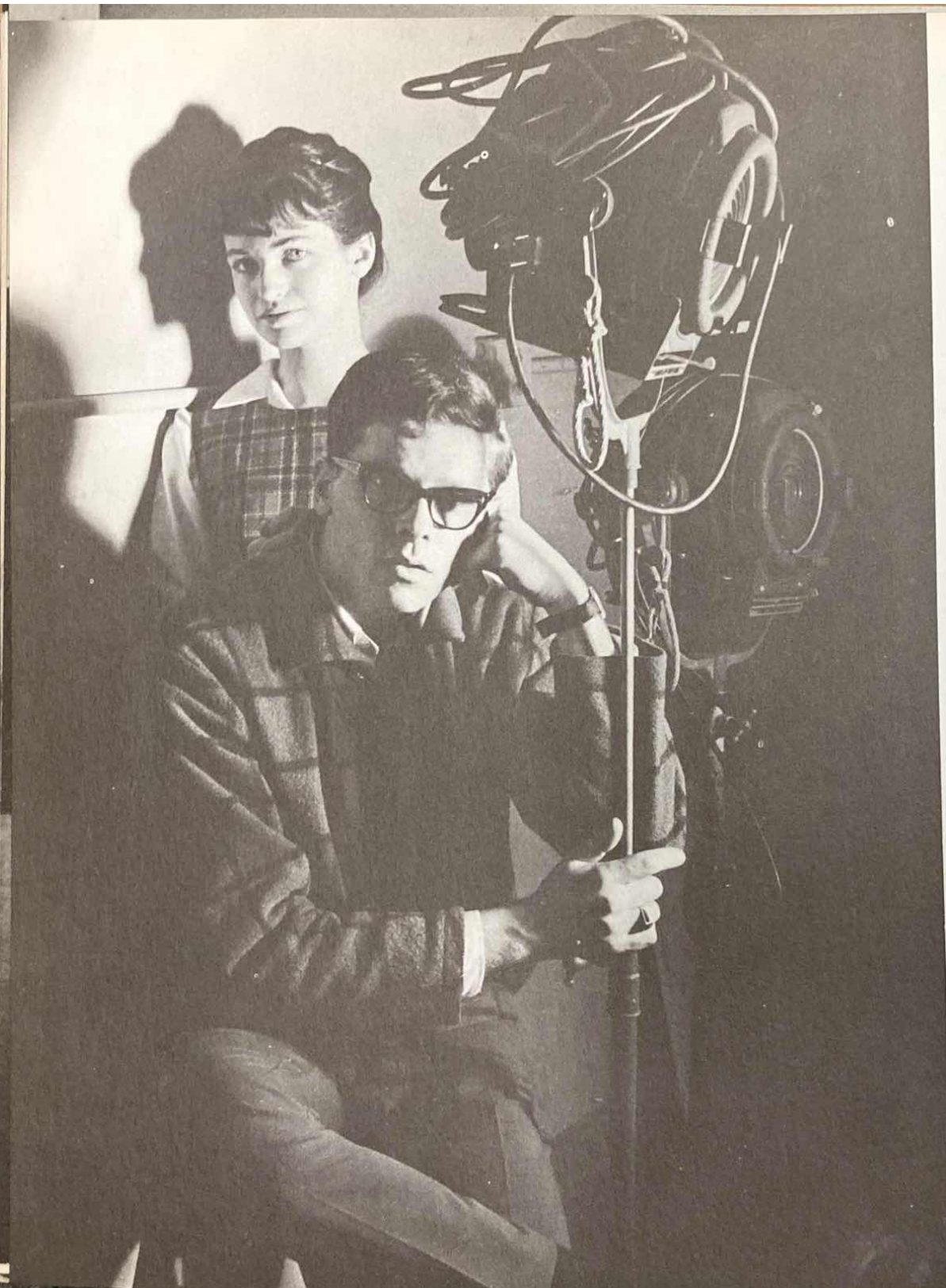
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Nina Salzberg
Anthony Cresci



Manfred Milkuhn
Janet Foster
Redmond Simonsen
Gail Wexler



Victoria Hartman Marvin Schwam

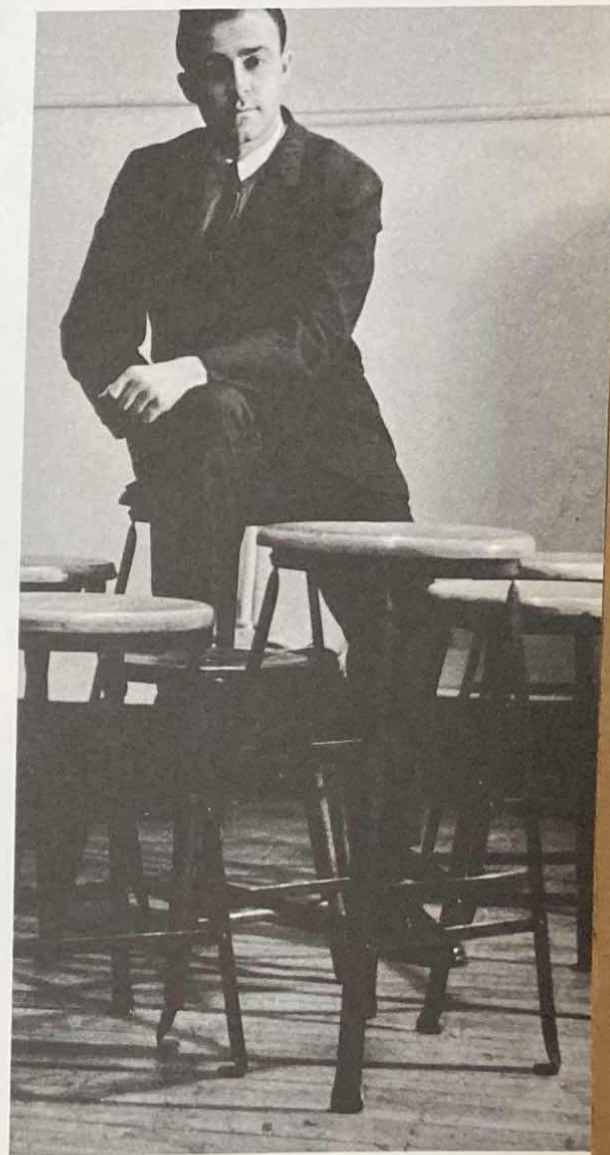
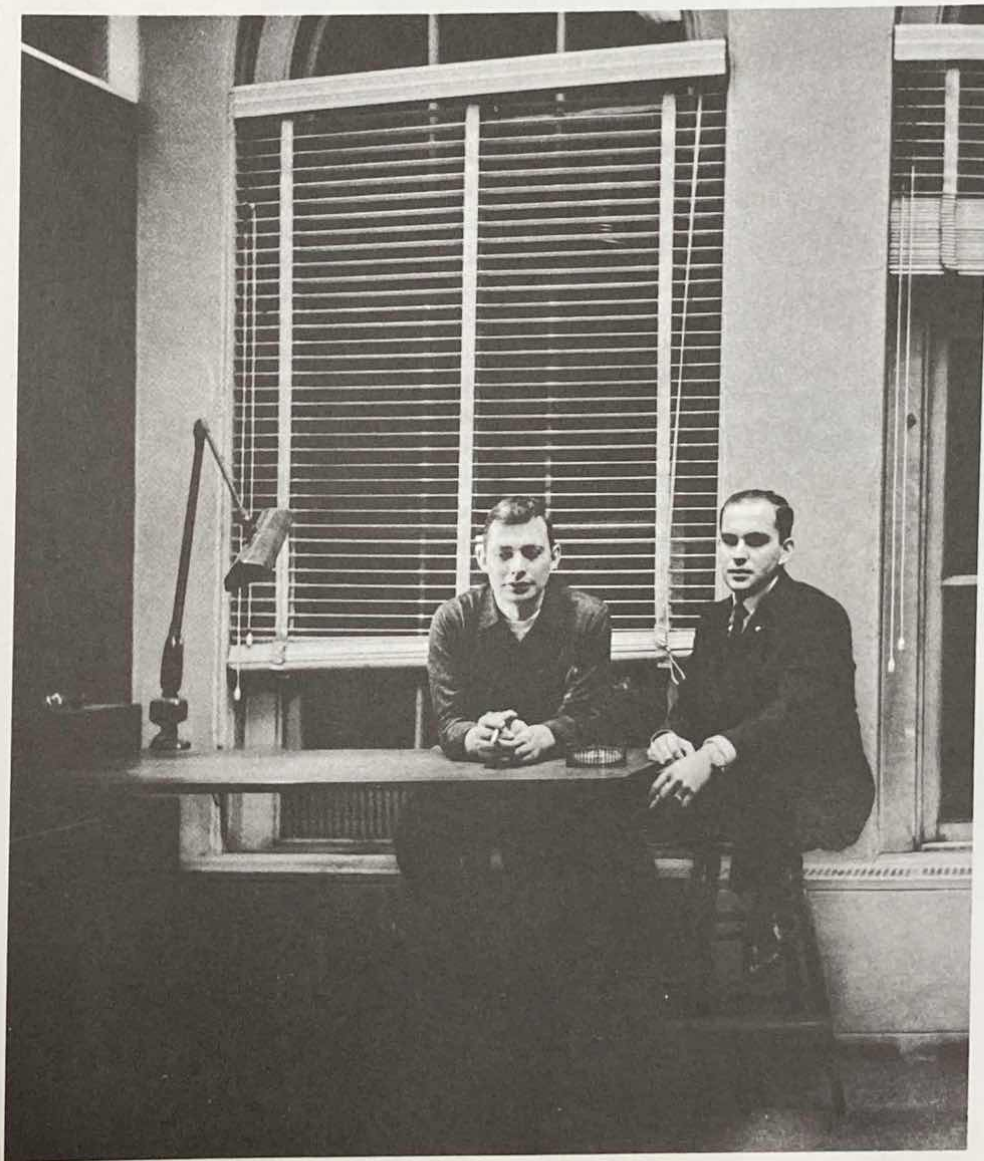


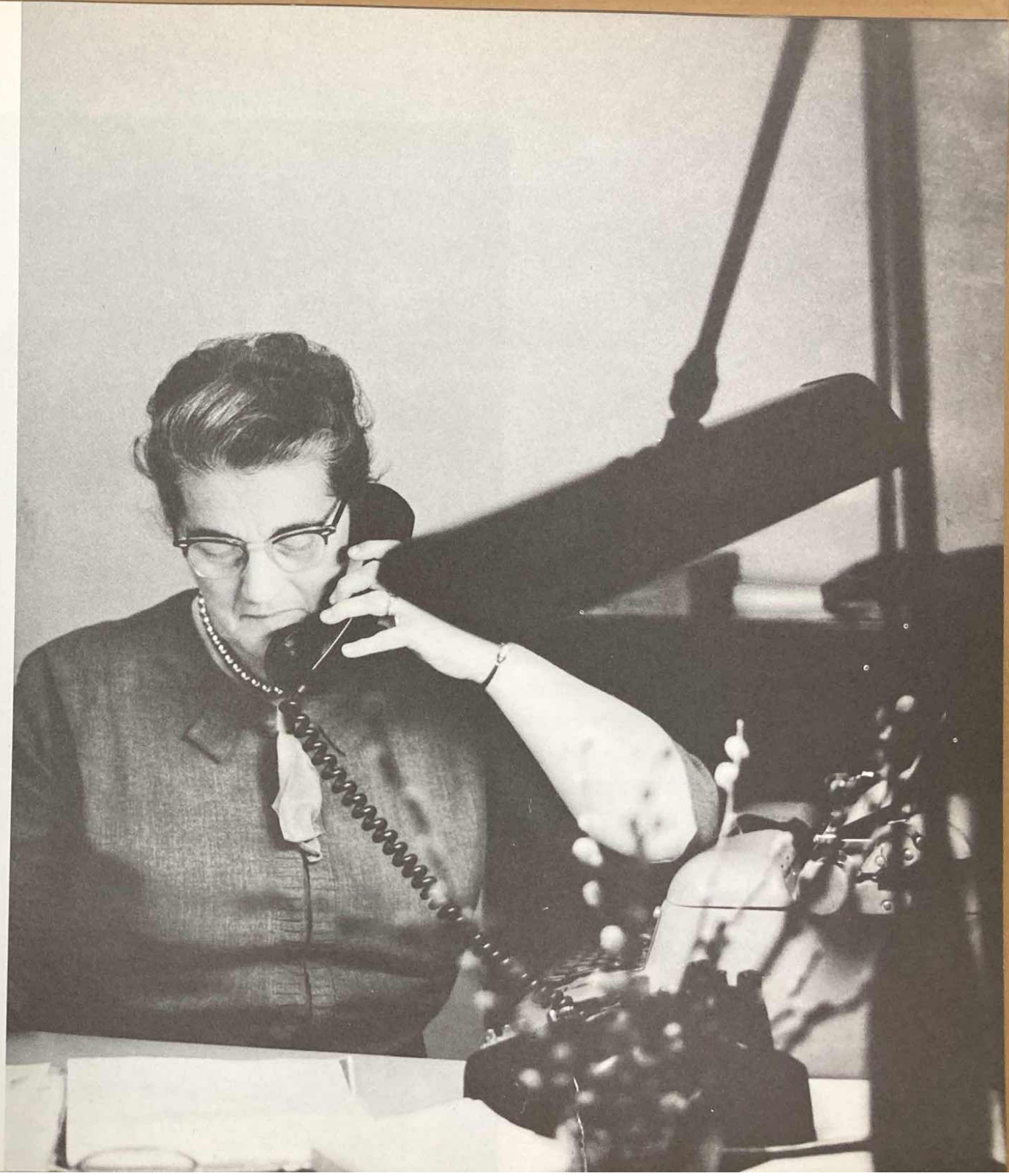
Leo Revi John Hawkins

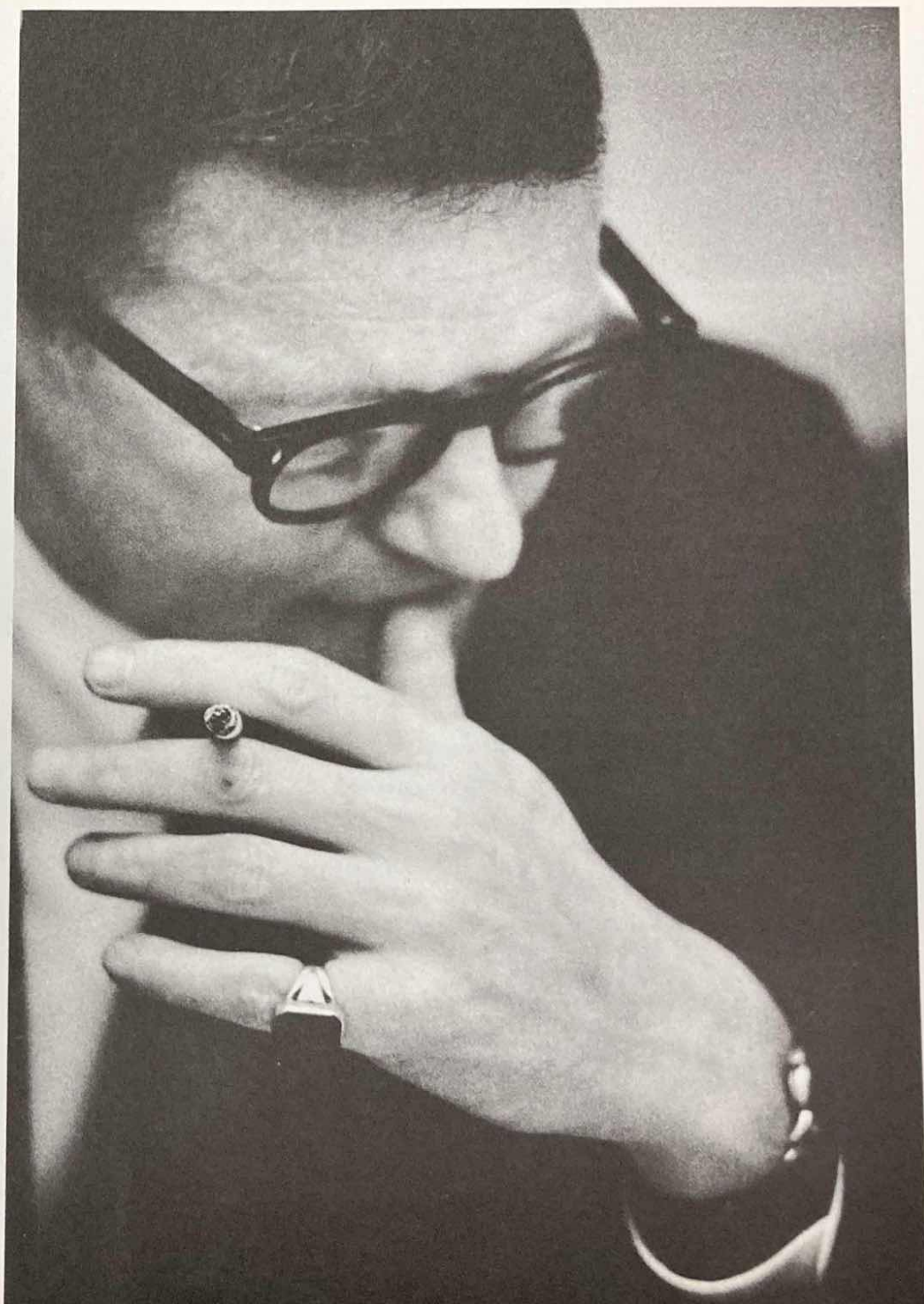


Lewis Patuto Arthur Thomson
Theodore Kvell Barry Elbasani
Richard Mullen Arthur Koby
Richard Hoetzel William Rohan
Roland Dick John Koster

Daniel Barber Elias Vilkas Donald Schad

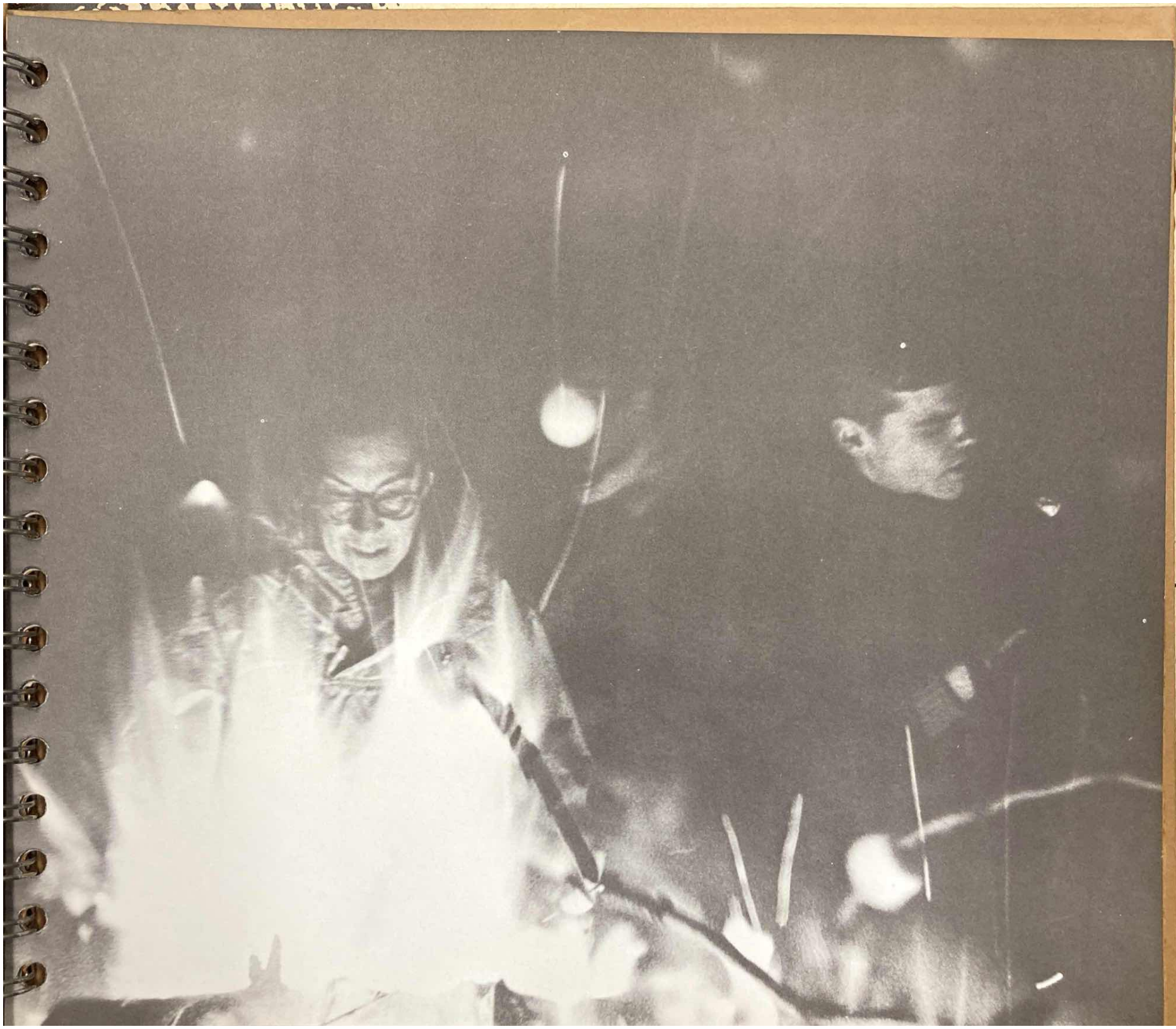




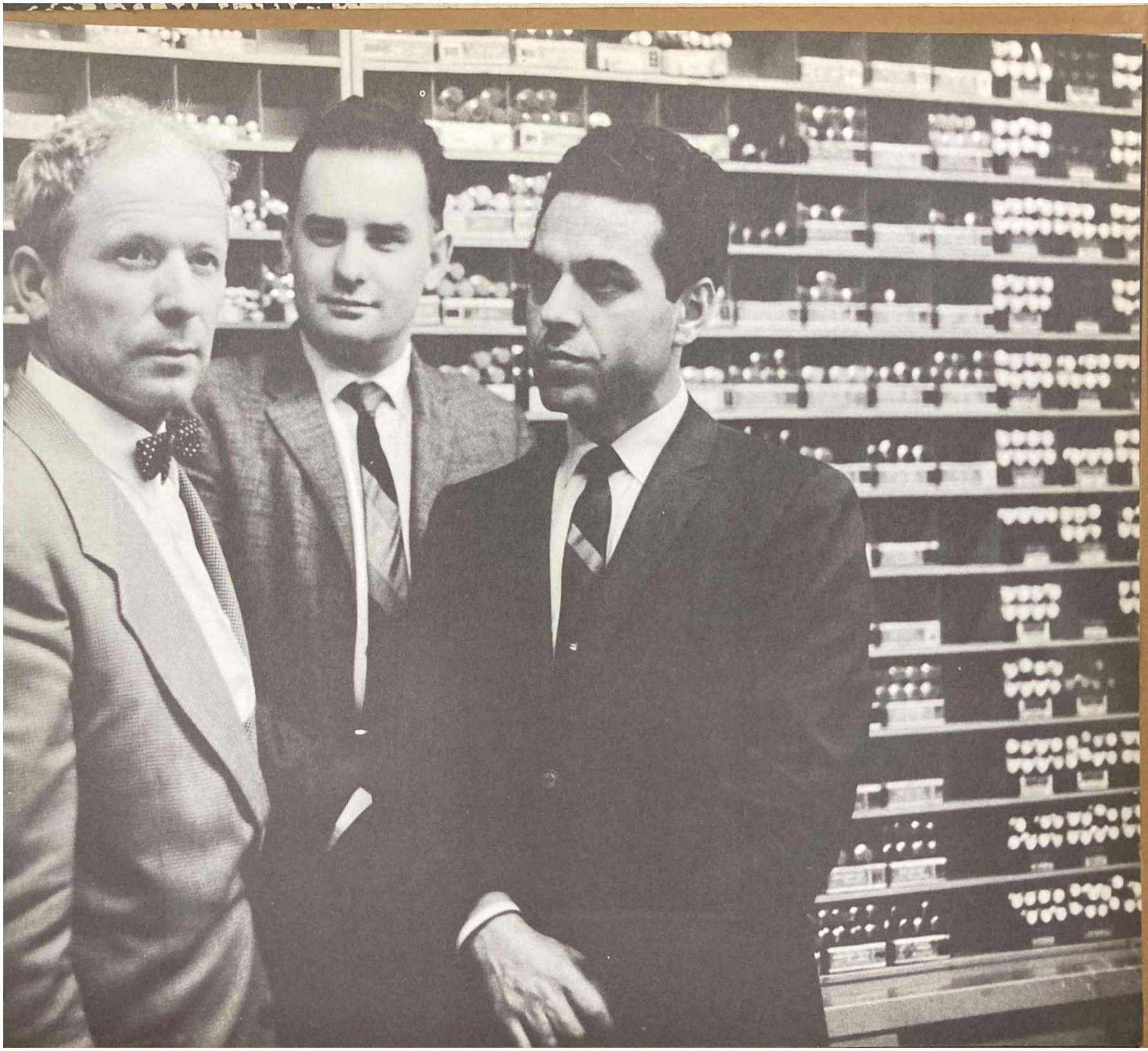


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Calvin, William James Pledgemaster AMS, Varsity Sabre Fencing **Davis, Brice** **Fass, Richard A.**
 President ESSC, Tau Beta Pi, Pledgemaster LSK **Freed, Bruce A.** AICHe, Exchequer and Social
 Chairman LSK, AP Sales Committee, Annual Dance Committee, Intramural Basketball **Greene, Marvin I.**
 President AICHe, Grand Prior AMS, Pioneer Business Staff **Gross, Benjamin** Grand Recording Scribe
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 Vice-Prior AMS, Treasurer AICHe, ESSC **Lieberman, Norman** SKT, AICHe, Student Leader, Aquatics
Ortenberg, Barry President Interfraternity Council JAC, President, Treasurer and Housemaster LSK
Peltz, Solomon Varsity Epee Fencing Team, AICHe, Student Leader APO **Piller, Stanley M.** Cable
 Editor-in-Chief, JAC Budgetary Committee, AICHe, APO **Pittinsky, Daniel** AMS, AICHe, Cooper Con-
 servative Club **Rosenson, Richard** Varsity Rifle Team 1960-64, Vice-President Rifle Club, AICHe,
 Vice-President NKO **Solomon, Robert L.** LSK **Serwetman, Aaron** President, Treasurer, Re-
 cording Secretary, Corresponding Secretary NKO, Secretary IFC, AICHe, Intramurals

CIVIL ENGINEERS: **Briskman, Eugene F.** President and Pledgemaster SKT, Sports Editor Pioneer,
 Treasurer ESSC, Manager Basketball Intramural, Co-Chairman SAC, Delegate IFC, ASCE **Chavez, Gary, A.**
 President Senior Class, Tau Beta Pi, Vice-President ODP, Vice-President Chi Epsilon **Cohn, Michael**
 Business Manager Pioneer, AMS, Treasurer ASCE **Davis, Sanford S.** Chi Epsilon, SKT, ASCE, ESSC
Dubin, Gerald H. Treasurer and Secretary AMS, ASCE, Intramurals **Fabijanec, Paul M.** ODP, Chi
 Epsilon, ASCE, Intramurals **Greenberg, Michael** LSK, Manager Volleyball Team, Softball Intramurals
Grillo, Vincent **Hegarty, Daniel M. Jr.** Tau Beta Pi, President and Secretary Chi Epsilon, Chi Epsilon
 Freshman Award, First Prize Public Speaking Contest, Vice-President and Secretary Protestant Club, ASCE
Kosherick, Harvey LSK, Captain Varsity Fencing Team **O'Shea, William** **Perelman, David S.**
 Secretary Chi Epsilon, Secretary LSK, ASCE, Softball Intramurals **Rand, Richard H.** Pledgemaster
 1963-64 AMS, Chi Epsilon, Tau Beta Pi **Schilling, Robert G. Jr.** ASCE **Sharkey, Murray E.**
 SKT Vice-President and Social Chairman, Correspondence Secretary, President ASCE, Assistant Manager
 Varsity Basketball Team, Intramurals, Public Speaking Contest Judge, Tennis Club, Pie-Eating Champion of

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 Captain SKT Basketball Intramural **Schwartz, Jesse G.** Treasurer Hiking Club, Pioneer, ASCE, Treas-
 urer Math Society, Chi Epsilon **Soltero, Eugene A.** ODP, Membership Chairman, ASCE, Pioneer, AA
 Governing Board, Basketball, Co-Manager, MAISA, Yacht Club, Treasurer, Varsity Sailing-Team, Racing Team,
 Captain, Intramurals

ELECTRICAL ENGINEERS: **Bank, Gilbert A.** Commodore Yacht Club, News Editor Pioneer, Vice-
 President AA **Berman, Victor H.** **Bilenko, Herman W.** Tau Beta Pi, President Eta Kappa Nu, IEEE,
 Chairman Honor Societies Dinner, Bowling Intramural, SKT **Braida, Louis D.** Tau Beta Pi, Eta Kappa
 Nu, Recipient Blonder Tongue Foundation Scholarship **Chang, Frederick J.** **Culmone, Tony** Tau
 Beta Pi, IEEE **Danilchick, Peter M.** Tau Beta Pi, Eta Kappa Nu, Secretary IEEE **Drechsler,**
Rudolph C. Tau Beta Pi, Eta Kappa Nu, Freshman Math Award, Recipient Kennecott Copper Scholarship
Feldman, Samuel **Kugel, Carl P.** **Lassman, Jay R.** Drama Editor Pioneer, Vice-President Senior
 Class, IEEE **McGinley, John C.** **Pumo, Walter** **Rosner, Roy D.** Business Manager Pioneer,
 Secretary ESSC, LSK, Chairman IEEE, Chairman Metropolitan Student Council IEEE, First Prize IEEE Paper
 Contest, Student Leader **Stern, Frederick J.** **Swarzman, Gordon L.** President Hiking Club, Eta
 Kappa Nu, Tau Beta Pi, NKO, Green Camp Advisory Committee **Tendler, Joel Marvin** Editor-in-Chief
 Pioneer, NKO, IEEE, JAC **Walvick, Edward A.** Tau Beta Pi, IEEE, Eta Kappa Nu, LSK, EE Shop Steward

MECHANICAL ENGINEERS: **Balderes, Theodore** Tau Beta Pi, Vice-President Pi Tau Sigma, Vice-
 President ASME **Douglas, Robert P.** Pi Tau Sigma, ASME, Newman Club, Trophy for Basketball
 Marksmanship **Dratch, Ralph L.** Vice-President ASME, Intramural Rifle Champion **Farrell, Greg-**
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 Kappa Nu **Morales, Angel R.** **Moran, Michael C.** **Myers, William H.** Tau Beta Pi, Eta Kappa Nu
Osgood, Robert K., Sr. Tau Beta Pi, Eta Kappa Nu **Reveron, Louis M.** IEEE **Schairer, Eddie**
Sullivan, Roger K. Tau Beta Pi, Pi Tau Sigma, Eta Kappa Nu, IEEE **Varlien, Kaare** **Wlaysewski,**
Joseph A. Tau Beta Pi

MECHANICAL ENGINEERS NIGHT SESSION: **Bazik, Stephen J.** Pi Tau Sigma **Bruno, Edward A.**
 ASME **Dudowitz, Samuel** **Golub, Jay A.** **Kohlmann, Harold J.** **Marino, Salvatore M.**
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 CUAS Number Nine, Art Directors Club Award **Simonsen, Redmond A.** Humanities Club Poetry Award
 1962-63, Judge of 1964 Poetry Competition, Editor of The Leaf **Wexler, Gail R.**

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Chimchirian, Arakci **Cohen, Alice** **DeJasu, Lee L.** **Eisenberg, Arlene H.** **Evely, Mary M.** **Fos-**
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Giersbach, William H. **Gordon, Michael A.** **Kates, Evelyn T.** Student Leader, Green Camp

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Schoenfeld, Susan M. Schonzeit, Benjamin Smith, Lynn D. Tomlin, Francine

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Charles I. Piazza, Mario J. Purnell, Herbert L. Samperi, Richard Schulman, Dorothy
Tierney, Lawrence R.

FINE ARTS NIGHT SESSION: Aberth, Etienne R. Ancona, Patricia R. Bastone, Joan Bien,
Beatrice Cohen, Sherry T. D'Arconte, Benjamin J. Duzey, Regina Erlandson, Margaret E.
Frye, Susan G. Goldin, Edwin Hillinger, Edith G. Kern, Joe W. Kranzberg, Janet L.
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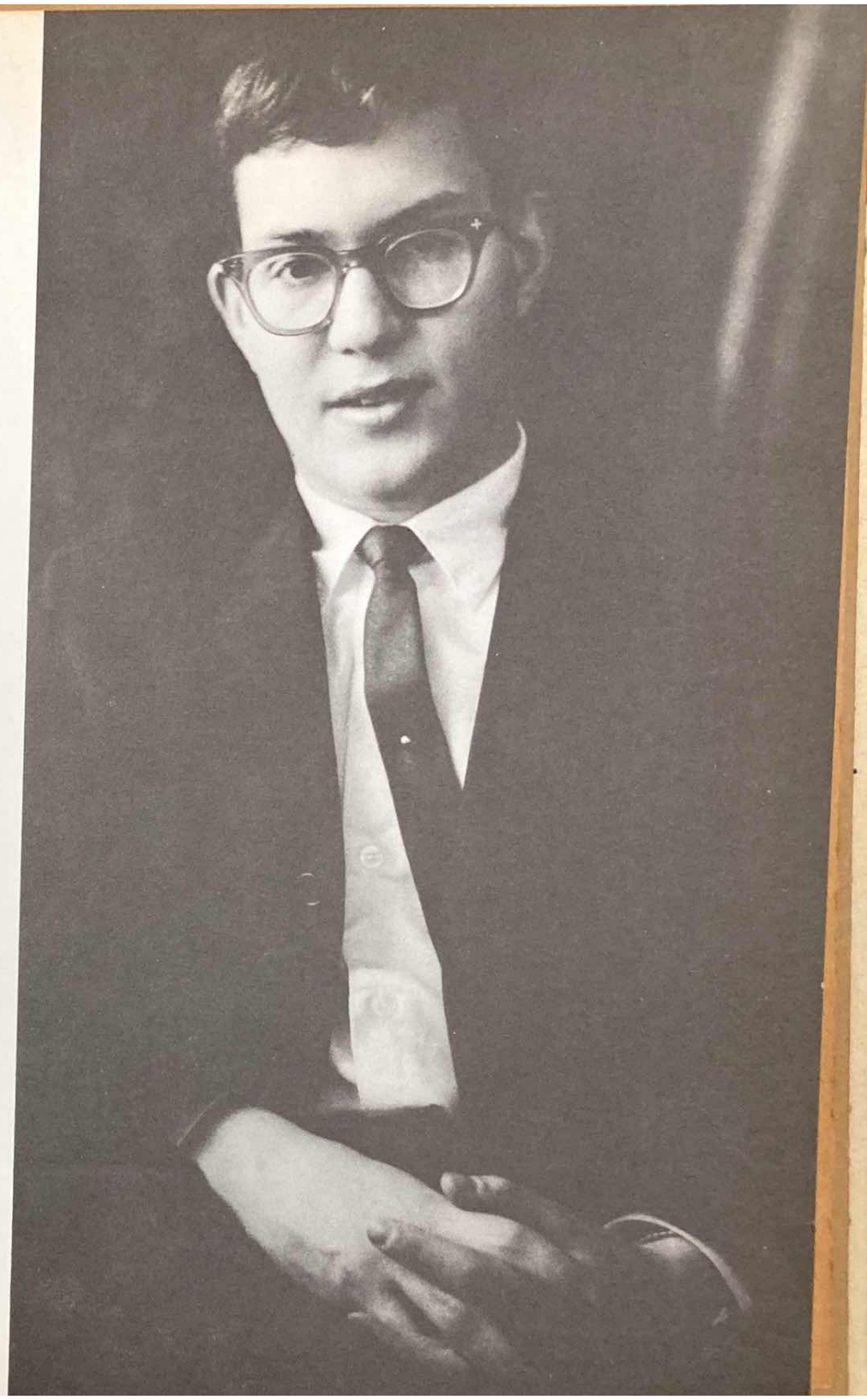
ARCHITECTURE NIGHT SESSION: Barber, Daniel L. Schad, Donald J. Vilkas, Elias

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Lester Barnett
Katherine Hahn

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